

EXHIBIT A

CONFIDENTIAL - SUBJECT TO PROTECTIVE ORDER

1

1 UNITED STATES DISTRICT COURT
2 DISTRICT OF MINNESOTA
3 - - - - -
4 In Re:
5 Bair Hugger Forced Air Warming
6 Products Liability Litigation
7
8 This Document Relates To:
9 All Actions MDL No. 15-2666 (JNE/FLM)
10 - - - - -
11
12
13 DEPOSITION OF RICHARD P. WENZEL, M.D., MSc.
14 VOLUME I, PAGES 1 - 370
15 AUGUST 4, 2017
16
17
18 (The following is the deposition of RICHARD
19 P. WENZEL, M.D., MSc., taken pursuant to Notice of
20 Taking Deposition, via videotape, at the Hausfeld law
21 firm, 1700 K Street Northwest, Suite 650, in the City
22 of Washington, District of Columbia, commencing at
23 approximately 9:08 o'clock a.m., August 4, 2017.)
24
25

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1 Filtration Levels, Dirkes, et al, 1
2 pg.
3 Richard Putnam Wenzel, Curriculum
4 Vitae
5 EXHIBIT B, Chart of Materials Sent
6 to Dr. Richard Wenzel, 21 pgs.
7 Group exhibit, Letters, Briley and
8 Wenzel to Blackwell Burke and hours
9 and expenses
10 Letters, Wenzel and Briley to
11 Blackwell Burke and hours
12 Article, INFECTION IN EXPERIMENTAL
13 HIP ARTHROPLASTIES, Southwood, et
14 al, Journal of Bone and Joint, Vol.
15 67-B, No 2. March 1985
16 Article, A New Model of
17 Experimental Prosthetic Joint
18 Infection Due to
19 Methicillin-Resistant
20 Staphylococcus aureus: A
21 Microbiologic, Histopathologic, and
22 Magnetic Resonance Imaging
23 Characterization, Belmatoug, et al,
24 Journal of Infectious Diseases,
25 1996, 174
email string, Wenzel to Darouiche,
4/7, 2017, 6 pgs.
Article, Airborne bacterial
contamination during orthopedic
surgery: A Randomized controlled
pilot trial, Journal of Clinical
Anesthesia, 2017 - with markings
Article, Forced-Air Warming Does
Not Worsen Air Quality in Laminar
Flow Operating Rooms, Sessler, et
al, Anesthesia, 2011, with markings
Excerpt, A Guide to Infection
Control in the Hospital, Fourth
Edition, Wenzel, et al, including
Chapter 21

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1 APPEARANCES:
2 On Behalf of the Plaintiffs:
3 Gabriel Assaad
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On Behalf of the Defendants:

17 Corey L. Gordon
18 Peter J. Goss
19 BLACKWELL BURKE P.A.
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22 Minneapolis, Minnesota 55415

23 ALSO PRESENT:

24 Ronald M. Huber, Videographer

25 WITNESS EXAMINATION INDEX
26 EXAMINED BY PAGE
27 Dr. Wenzel Mr. Assaad

28 EXHIBIT INDEX
29 EXHIBIT DESCRIPTION PAGE
30 Wenzel
31 1 Expert Report, Richard P. Wenzel,
32 79 pgs.
33 2 Dr. Richard Wenzel, Exhibit B, 3
34 pgs.
35 3 Abstract, Convection Warming in the
36 Operating Room: Evaluation of
37 Bacterial Spread with Three

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PROCEEDINGS

09:08:40 1 (Witness sworn.)
09:08:40 2 RICHARD P. WENZEL, M.D., MSc.,
3 Called as a witness, being first
4 duly sworn, was examined and
5 testified as follows:
6 EXAMINATION

09:08:59 7 BY MR. ASSAAD:
09:09:00 8 Q. Please state your name.
09:09:00 9 A. Richard Wenzel.
09:09:03 10 Q. And what's your current address?
09:09:05 11 A. 1420 Mosquito Point Road, White Stone,
12 Virginia. Home address you wanted.
09:09:09 13 Q. Yeah. And your business address, if you
14 have one?
09:09:11 15 A. The post office is P.O. Box 901, and again
09:09:14 16 White Stone, Virginia, 22578, so.
09:09:17 17 Q. Are you still affiliated with Virginia
18 Commonwealth University?
09:09:21 19 A. Yep. I'm still teaching. I'm sort of
20 formally retired, but they bring us back every now and
21 then. So I -- I teach.
09:09:25 22 Q. Have you had your deposition taken before?
09:09:28 23 A. Never.
09:09:33 24 Q. This is your first time?
09:09:36 25 A. STIREWALT & ASSOCIATES
09:09:37 26 1-800-553-1953 info@stirewalt.com

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09:21:14 **1** produced to counsel listed in your expert report?
 09:21:20 **2** **A.** I think so.
 09:21:21 **3** **Q.** Okay. You do understand that today you're
 09:21:34 **4** under oath; correct?
 09:21:35 **5** **A.** I do.
 09:21:35 **6** **Q.** And that's under penalty of perjury;
 09:21:37 **7** correct?
 09:21:38 **8** **A.** That's correct.
 09:21:39 **9** **Q.** If you realize that anything in your report
 09:21:41 **10** is incorrect or wrong, this is the time to inform us.
 09:21:44 **11** Do you understand that?
 09:21:45 **12** **A.** I do.
 09:21:45 **13** **Q.** Okay. Now it's my understanding, from
 09:21:59 **14** reading your report, that you don't believe that
 09:22:06 **15** infections can be caused by airborne contaminants in
 09:22:09 **16** the operating room. Is that true?
 09:22:11 **17** **A.** I don't think that's exactly what I said. I
 09:22:15 **18** think the key element of my report is I couldn't find
 09:22:18 **19** evidence linking the Bair Hugger to harm, and then I
 09:22:22 **20** went through a great deal of papers to show that I
 09:22:27 **21** think most infections, the vast majority, come from
 09:22:31 **22** the patient's own microbiome. I'm not sure that's
 09:22:34 **23** your question, but that...
 09:22:35 **24** **Q.** So you -- it's your opinion that most of the
 09:22:37 **25** infections that occur during a total knee or total hip

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09:22:41 **1** arthroplasty come from the patient's own biome,
 09:22:45 **2** microbiome.
 09:22:45 **3** **A.** Yes, I do.
 09:22:46 **4** **Q.** Okay. And that's based on research that you
 09:22:49 **5** reviewed?
 09:22:50 **6** **A.** Research that I reviewed, yeah.
 09:22:52 **7** **Q.** Okay. And we'll get to that soon.
 09:23:02 **8** And when we're talking about infections
 09:23:11 **9** during total hip/total knee arthroplasty we're talking
 09:23:14 **10** about any type of infection, not infections that may
 09:23:17 **11** be caused by a Bair Hugger, correct, that are caused
 09:23:19 **12** by the human biome?
 09:23:22 **13** **A.** I'm not sure. The question again?
 09:23:23 **14** **Q.** Well before you limited to your -- your
 09:23:26 **15** opinion that the Bair Hugger doesn't cause infections.
 09:23:29 **16** Do you recall that?
 09:23:30 **17** **A.** Yeah. What I said is I couldn't find
 09:23:32 **18** evidence that would link the Bair Hugger to any link
 09:23:35 **19** to infections.
 09:23:36 **20** **Q.** Okay. My question is: With respect to just
 09:23:41 **21** total hip and total knee, irrespective of the source
 09:23:44 **22** of the -- or what may or may not cause the infections,
 09:23:48 **23** it's your opinion that the majority of those
 09:23:50 **24** infections are caused by bacteria on the patient's own
 09:23:55 **25** biome.

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09:23:56 **1** **A.** I do, yes.
 09:23:59 **2** **Q.** Okay. Is it my understanding that the
 09:24:15 **3** majority of the time you spent on formulating your
 09:24:18 **4** opinions was doing a literature review?
 09:24:22 **5** **A.** Yes.
 09:24:23 **6** **Q.** Okay. You didn't do any biological testing;
 09:24:25 **7** correct?
 09:24:25 **8** **A.** That's correct.
 09:24:26 **9** **Q.** You looked at no internal 3M documents;
 09:24:32 **10** correct?
 09:24:32 **11** **A.** That's correct.
 09:24:33 **12** **Q.** Okay. You didn't do any particle testing;
 09:24:35 **13** correct?
 09:24:36 **14** **A.** That's correct.
 09:24:36 **15** **Q.** Okay. In fact you haven't -- you didn't do
 09:24:38 **16** any type of original testing.
 09:24:39 **17** **A.** Not related to this case.
 09:24:41 **18** **Q.** Okay. Your report is largely a recitation
 09:24:45 **19** and cri -- of critiques of various peer-reviewed
 09:24:48 **20** studies; correct?
 09:24:49 **21** **A.** It's my review of the peer-reviewed studies,
 09:24:53 **22** and my conclusions based on the data that I saw and my
 09:24:58 **23** interpretation of the data.
 09:25:05 **24** (Wenzel Exhibit 1 marked for
 09:25:05 **25** identification.)

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09:25:05 **1** BY MR. ASSAAD:
 09:25:14 **2** **Q.** What's been marked as Exhibit 1 is a copy of
 09:25:16 **3** your report. Do you agree with me that that is a
 09:25:20 **4** complete copy of your report?
 09:25:22 **5** **A.** It looks like it.
 09:25:23 **6** **Q.** Okay. And have you had a chance to review
 09:25:28 **7** your report before today's deposition?
 09:25:30 **8** **A.** Yes, I have.
 09:25:31 **9** **Q.** Okay. You've reread your entire report
 09:25:34 **10** before today's deposition?
 09:25:35 **11** **A.** I have.
 09:25:35 **12** **Q.** Okay. And you --
 09:25:36 **13** Is there anything that you want to change in
 09:25:38 **14** your report before we begin?
 09:25:40 **15** **A.** I don't think so, but we'll see.
 09:25:43 **16** **Q.** Sitting today, these are your complete
 09:25:45 **17** opinions and all of the sources that you rely upon to
 09:25:48 **18** formulate your opinions as of June 2nd, 2017 when you
 09:25:51 **19** submitted this report.
 09:25:54 **20** **A.** Are there other articles out there, are you
 09:25:56 **21** asking, --
 09:25:57 **22** **Q.** No.
 09:25:57 **23** **A.** -- that I might have thought about since
 09:26:00 **24** then, or?
 09:26:01 **25** **Q.** Well I'm asking about articles and
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09:42:32 1 A. Not sure, but probably.
 09:42:33 2 Q. Okay. So you didn't receive any internal
 09:42:36 3 testing of the Bair Hugger from 3M?
 09:42:38 4 A. No.
 09:42:39 5 Q. You didn't receive any --
 09:42:41 6 Did you receive any of the computational
 09:42:48 7 fluid dynamics studies that were done internally by
 09:42:52 8 3M?
 09:42:52 9 A. No.
 09:42:53 10 Q. Did you receive any of the schlieren studies
 09:42:56 11 that were done internally by 3M?
 09:42:58 12 A. No.
 09:42:58 13 Q. Did you see --
 09:42:59 14 Did you get any of the calculations done
 09:43:03 15 with respect to whether or not the Bair Hugger
 09:43:05 16 disrupts unidirectional flow that was done internally
 09:43:11 17 by 3M?
 09:43:12 18 A. No.
 09:43:12 19 MR. COREY GORDON: Object to the form of
 09:43:13 20 the question.
 09:43:14 21 MR. ASSAAD: Basis?
 09:43:15 22 MR. COREY GORDON: Assumes facts not in
 09:43:18 23 evidence, and -- and the predicate of the question is
 09:43:22 24 actually contrary to evidence.
 09:43:23 25 MR. ASSAAD: Okay.

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09:45:03 1 A. Well in my report I've said somewhere
 09:45:05 2 between 70 and 90 just based on the data that we have
 09:45:09 3 already.
 09:45:10 4 Q. Okay. And that is because, based on your
 09:45:15 5 opinion that if a surgical-site infection occurs that
 09:45:25 6 it's -- it's most likely patient flora and not from
 09:45:29 7 airborne contamination.
 09:45:30 8 MR. COREY GORDON: Object to the form of
 09:45:31 9 the question.
 09:45:31 10 A. It's based on my opinion, which is based on
 09:45:35 11 review of the literature that looks at the microbiome
 09:45:39 12 and the influence of the microbiome on the organisms
 09:45:44 13 causing surgical-site infections.
 09:45:49 14 Is that clear, or let me know if you --
 09:45:50 15 Q. Well no. I'm just trying to understand your
 09:45:53 16 opinion --
 09:45:53 17 A. Yeah.
 09:45:53 18 Q. -- and just to sum it up.
 09:45:53 19 A. Sure.
 09:45:54 20 Q. Your opinion is that the most likely cause
 09:45:56 21 of a surgical-site infection is the pla -- the
 09:45:59 22 patient's flora.
 09:46:00 23 A. Yes.
 09:46:01 24 Q. Okay. And you don't believe that the --
 09:46:09 25 that the air quality of an operating room causes a

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09:43:25 1 Q. Did you receive any of the -- Strike that.
 09:43:40 2 Did you see the computational fluid dynamic
 09:44:05 3 videos perfor -- prepared by Dr. Elghobashi?
 09:44:09 4 A. Was that a Science Day? I can't remember --
 09:44:11 5 Q. No.
 09:44:11 6 A. -- whether he had one. Then I probably
 09:44:13 7 didn't see it.
 09:44:14 8 Q. Did you see the videos prepared by Dr.
 09:44:17 9 Abraham?
 09:44:17 10 A. I think he had that at Science Day. That's
 09:44:20 11 all I saw, yes.
 09:44:22 12 Q. Okay. But my understanding is because your
 09:44:27 13 opinion is that most of the infections that cau --
 09:44:30 14 most of the bacteria that causes surgical-site
 09:44:32 15 infections is on the patient's flora, that airflow in
 09:44:37 16 the operating room is -- is not that -- is not as
 09:44:43 17 important as other areas with respect to infection.
 09:44:46 18 MR. COREY GORDON: Object to the form of
 09:44:48 19 the question.
 09:44:48 20 A. What I would say is that if you're looking
 09:44:50 21 for the reservoir of the organisms causing
 09:44:54 22 surgical-site infections, my opinion is that they come
 09:44:58 23 from the patient the vast majority of time.
 09:45:01 24 Q. When you say "vast majority," can you give
 09:45:02 25 me a percentage?

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09:46:18 1 significant risk of surgical-site infection.
 09:46:22 2 MR. COREY GORDON: Object to the form of
 09:46:23 3 the question.
 09:46:24 4 A. Well I'm not sure what you mean by
 09:46:25 5 "significant risk," but I think -- I mean, I belie --
 09:46:30 6 I'm interested in infection control, no question, and
 09:46:33 7 I would love the air to be as clean as possible. And
 09:46:36 8 the question really gets to the heart of this is does
 09:46:40 9 air influence the infections or the infection rate,
 09:46:48 10 and it's hard to find a lot of data to support that.
 09:46:51 11 Q. Well --
 09:46:52 12 A. I -- I don't want to say it's a total
 09:46:53 13 impossibility. I'm one of those guys, you'll ask me a
 09:46:56 14 lot of questions, I won't say "never" or "always."
 09:46:59 15 Q. Well let's do it this way to make things
 09:47:01 16 easier. I'm asking for your opinion within a
 09:47:05 17 reasonable degree of medical probability. Okay?
 09:47:06 18 A. Umm-hmm.
 09:47:07 19 Q. I'm not asking for a hundred percent
 09:47:08 20 certainty.
 09:47:09 21 A. Yeah.
 09:47:09 22 Q. You understand that?
 09:47:10 23 A. Yeah.
 09:47:10 24 Q. So it's my understanding that your opinion
 09:47:12 25 is that the mo -- that -- that more likely than not

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09:47:16 1 the air quality in an operating room does not cause a
 09:47:19 2 significant risk in surgical-site infections.
 09:47:21 3 MR. COREY GORDON: Object to the form of
 09:47:22 4 the question.
 09:47:22 5 A. I don't know that I would phrase it that
 09:47:23 6 way.
 09:47:24 7 What I would say is most -- the origin, in
 09:47:27 8 other words, the reservoir of the organisms causing
 09:47:30 9 surgical-site infections is the vast majority are
 09:47:33 10 going to be in the patient, they're endogenous, in my
 09:47:38 11 opinion. I -- You know, I want the air to be as pure
 09:47:40 12 as possible. I think there's always a possibility
 09:47:44 13 that air is involved in surgical-site infections. I
 09:47:48 14 think the information that we'd love to have to answer
 09:47:52 15 your question is -- is still not out there clear. And
 09:47:55 16 the reason, in part, if you want to look at laminar
 09:47:59 17 airflow. So right after the Lidwell's really
 09:48:03 18 interesting study, you know, heart and lung, number of
 09:48:06 19 patients, 8,000 patients, randomized, you know, a lot
 09:48:11 20 of hospitals began to then rely on laminar airflow.
 09:48:15 21 So what happened then? So you had Brandt's study, you
 09:48:19 22 know, the total review, and then you had Gastmeier's
 09:48:23 23 review, and then you had a review by Hooper for the
 09:48:28 24 New Zealand and the follow-up New Zealand; four cohort
 09:48:33 25 studies, 300,000 patients, and what they found

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09:49:33 1 A. Yeah.
 09:49:33 2 Q. -- do you -- don't you think it's important
 09:49:35 3 to understand the difference?
 09:49:37 4 A. Yeah.
 09:49:37 5 Q. Okay.
 09:49:37 6 A. I think I do.
 09:49:38 7 Q. So what --
 09:49:38 8 So your difference is one is unidirectional,
 09:49:40 9 and the --
 09:49:41 10 And what's "turbulent" then?
 09:49:42 11 A. Turbulent is where there's no effort to sort
 09:49:46 12 of compartmentalize the air either from the side or
 09:49:49 13 from the top that laminar flow is trying to push down
 09:49:54 14 the particles or -- in one way or another.
 09:49:59 15 Q. So what's turbulent, then? Where is the air
 09:50:01 16 coming from?
 09:50:02 17 A. Turbulent they don't have that. The air is
 09:50:05 18 ambient air coming through a filter that's in the
 09:50:07 19 operating room.
 09:50:09 20 Q. But where are the -- where is -- where is
 09:50:10 21 the vents?
 09:50:12 22 MR. COREY GORDON: Objection, lack of
 09:50:13 23 foundation.
 09:50:13 24 A. I don't know.
 09:50:14 25 Q. I mean, doctor, you agree with me that if

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09:48:37 1 actually was the infection rates were a little higher
 09:48:41 2 if you had laminar airflow.
 09:48:43 3 Follow that up. More recently Bischoff has
 09:48:47 4 done a big meta-analysis published in *Lancet*, and what
 09:48:51 5 he showed was in fact with 14 studies, hips and knees,
 09:48:57 6 there is no real improvement when you add all those
 09:49:02 7 data as well from the meta --
 09:49:03 8 Q. Can I ask you a question real quick?
 09:49:06 9 A. Hmm?
 09:49:06 10 Q. Can I ask you a question real quick?
 09:49:07 11 A. Yeah.
 09:49:08 12 Q. What percentage of hospitals in the United
 09:49:10 13 States use laminar airflow?
 09:49:11 14 A. I don't know what the answer is. I don't
 09:49:12 15 think it's the majority.
 09:49:14 16 Q. I mean, have you ever been in an operating
 09:49:15 17 room in the United States that has laminar airflow?
 09:49:18 18 A. Don't think so.
 09:49:20 19 Q. Do you know what laminar airflow is?
 09:49:22 20 A. Unidirectional filtered air.
 09:49:24 21 Q. That's your understanding of laminar
 09:49:25 22 airflow?
 09:49:25 23 A. Yeah. I'm not an expert in laminar.
 09:49:27 24 Q. Okay. So when you read studies that discuss
 09:49:30 25 laminar airflow and turbulent airflow, --

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09:50:17 1 you're going to criticize articles and use it to
 09:50:20 2 formulate your opinions that you should have --
 09:50:21 3 especially discussing laminar flow and turbulent flow,
 09:50:25 4 you should have a good understanding of what the
 09:50:27 5 difference is. Don't you agree?
 09:50:28 6 MR. COREY GORDON: Object to the form of
 09:50:29 7 the question.
 09:50:29 8 Q. Don't you agree, doctor?
 09:50:30 9 A. I'd love to know more about laminar flow,
 09:50:33 10 but I've -- I've cited 300,000-plus patients who
 09:50:37 11 undergo laminar flow, and then I've cited a
 09:50:41 12 meta-analysis recently.
 09:50:43 13 Q. But would it make any difference if 99
 09:50:45 14 percent of the hospitals in the United States don't
 09:50:47 15 use laminar flow?
 09:50:49 16 MR. COREY GORDON: Object to the form of
 09:50:49 17 the question.
 09:50:50 18 A. I don't even understand that question.
 09:50:51 19 Q. Well you --
 09:50:53 20 Do you know what percentage of hospitals in
 09:50:54 21 the United States use laminar flow?
 09:50:56 22 A. No, I don't. I thought it was a minority.
 09:50:58 23 Q. Do you think if air comes from the ceiling
 09:51:00 24 that it's laminar flow?
 09:51:01 25 MR. COREY GORDON: Object to the form --

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09:54:19 1 MR. COREY GORDON: Object to the form of
09:54:20 2 the question.

09:54:20 3 Q. Do you know who he is?

09:54:21 4 A. I don't think so.

09:54:21 5 Q. Okay.

09:54:24 6 MR. ASSAAD: What was the basis?

09:54:26 7 MR. COREY GORDON: Memarzadeh? I mean, if
09:54:27 8 you want to ask him about a specific study or -- I
09:54:31 9 mean, there are proba --

09:54:31 10 MR. ASSAAD: Who he is. Who he is.

09:54:31 11 MR. COREY GORDON: You know, Gabe, I'll bet
09:54:31 12 --

09:54:33 13 Q. Do you know who Darouiche is? Do you know
09:54:36 14 who Darouiche is?

09:54:36 15 MR. COREY GORDON: I'll bet there's several
09:54:38 16 hundred people in the United States whose last name
09:54:39 17 is Memarzadeh.

09:54:40 18 MR. ASSAAD: Okay Corey, great.

09:54:41 19 Q. Do you know who Darouiche is?

09:54:43 20 A. I do.

09:54:43 21 Q. How many Darouches are there in the United
09:54:46 22 States, do you think?

09:54:46 23 A. I have no idea.

09:54:47 24 Q. Okay. But you know the Darouiche I'd be
09:54:48 25 talking about in this case; correct?

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09:55:57 1 A. No, I don't.

09:55:58 2 Q. Okay.

09:56:07 3 (Wenzel Exhibit 4 marked for
09:56:07 4 identification.)

09:56:07 5 BY MR. ASSAAD:

09:56:31 6 Q. Exhibit 4 is a copy of your curriculum
09:56:35 7 vitae. Is this the most up to date copy of your
09:56:37 8 curriculum vitae?

09:56:38 9 A. I think so.

09:56:42 10 Q. Are you board certified in infectious
09:56:45 11 disease?

09:56:45 12 A. I'm board certified in infectious disease
09:56:47 13 and internal medicine.

09:56:48 14 Q. Okay. I don't want to spend too much time,
09:56:52 15 but please help me out here. I want to go to your
09:56:55 16 publications --

09:56:56 17 A. Sure.

09:57:03 18 Q. -- which I believe starts on page -- under
09:57:10 19 your Bibliography. There's no page numbers. I'm
09:57:14 20 sorry.

09:57:14 21 A. Yeah, there should be. I'm sorry.

09:57:17 22 Q. Well that's what was provided to me.
09:57:19 23 Is that another mistake?

09:57:20 24 A. Well --

09:57:20 25 MR. COREY GORDON: Object to the form of
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09:54:50 1 A. Yes.

09:54:50 2 Q. Okay. You mentioned particles in an earlier
09:55:13 3 answer. Do you agree that particles can carry
09:55:17 4 bacteria?

09:55:17 5 A. Yes, some of them can.

09:55:19 6 Q. What do you mean by "some of them"?

09:55:21 7 A. I think the -- I've seen sort of percentages
09:55:24 8 vary, plus or minus 40 percent or something like that.

09:55:27 9 Q. What percentages carry parti --

09:55:29 10 In an operating room, what percentage of the
09:55:31 11 particles carry bacteria?

09:55:32 12 MR. COREY GORDON: Object to the form of
09:55:33 13 the question.

09:55:33 14 A. Well I don't know, but I'm giving you what
09:55:35 15 I've seen printed in the literature, 40 percent.

09:55:39 16 Q. Forty percent of the particles in an
09:55:40 17 operating room carry bacteria?

09:55:41 18 MR. COREY GORDON: Object to the form of
09:55:41 19 the question.

09:55:42 20 A. Forty percent of particles can carry
09:55:46 21 bacteria. I don't know how well that's been studied
09:55:48 22 in an operating room by itself, but I'm happy to talk
09:55:50 23 about particles.

09:55:51 24 Q. Well, so -- Do you have a --

09:55:55 25 Do you have a citation for that?

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09:57:21 1 the question.

09:57:21 2 A. -- I don't know if it's a mistake. I wish
09:57:23 3 they were there to help you.

09:57:24 4 Q. Okay. The bibliography sometimes your name
09:57:28 5 is first and sometimes it's last or in the middle.

09:57:30 6 What does that mean with respect to published papers?

09:57:33 7 A. If you're the first author it's you're the
09:57:35 8 one who really did the work, you were at the front

09:57:38 9 line doing the work and should get the credit as the
09:57:43 10 first author. If you're the last author you're

09:57:46 11 usually the person -- the senior member of the team,
09:57:50 12 helped design the study and helped perhaps with the
09:57:55 13 protocol.

09:57:56 14 Q. Okay. And you have text books, and

09:58:01 15 journal/book section editor, books for general
09:58:04 16 readership, and monographs. What are the difference
09:58:06 17 between them?

09:58:07 18 A. Okay. So under the papers, these are --

09:58:12 19 tend to be peer-reviewed articles published in
09:58:16 20 journals.

09:58:17 21 Q. Umm-hmm.

09:58:19 22 A. Monographs are sometimes just someone might
09:58:22 23 say, would you give us a review of something like
09:58:26 24 surgical-site infections, for example, and you put
09:58:32 25 together a brief sort of report that's not peer

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10:53:00 1 A. Yeah.
 10:53:00 2 Q. Okay. You have 2,397; correct?
 10:53:03 3 A. Yeah. Of the hips and anything to do with
 10:53:05 4 orthopedics, right.
 10:53:07 5 Q. And you said a study of only looking at six
 10:53:09 6 weeks will not pick up deep joint infections?
 10:53:12 7 A. Might miss a lot of them.
 10:53:14 8 Q. Okay. Because they may -- they may occur
 10:53:16 9 one year after; correct?
 10:53:17 10 A. Could be, but at least out three months. I
 10:53:19 11 don't know why you wouldn't do that.
 10:53:21 12 Q. I mean some of them even occur two years;
 10:53:23 13 correct?
 10:53:23 14 A. Some people show up two years later. It's
 10:53:26 15 always hard to know, you know, did they have an
 10:53:30 16 interim -- intermittent bloodstream infection, but out
 10:53:31 17 to a year --
 10:53:33 18 (Interruption by the reporter.)
 10:53:34 19 A. -- intermittent bloodstream infection that
 10:53:35 20 landed on the device.
 10:53:37 21 Q. And -- And there are -- there are some case
 10:53:39 22 studies out there that indicate that they could have
 10:53:43 23 had -- come up and be five years later if there's no
 10:53:47 24 intermittent infection. They trace it back to the
 10:53:48 25 implant surgery.

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10:54:40 1 There's a debate going on as to whether or
 10:54:41 2 not these patients should all be screened by their
 10:54:44 3 oral surgeons or not beforehand because it's a worry.
 10:55:18 4 Q. Okay. And since you believe that the most
 10:55:26 5 likely cause of a surgical-site infection is patient
 10:55:30 6 flora, then you would agree with me that the
 10:55:34 7 likelihood that the anesthesia machine caused a
 10:55:38 8 surgical-site infection is very low.
 10:55:41 9 MR. COREY GORDON: Object to the form of
 10:55:43 10 the question.
 10:55:44 11 A. In general I think that's true.
 10:55:47 12 Q. Okay.
 10:55:48 13 A. Would there be an exception, an outbreak or
 10:55:50 14 something like that where something happened? Yeah.
 10:55:51 15 But that's what I would say in general, yes, I think
 10:55:53 16 it's low.
 10:55:54 17 Q. We're talking probabilities here.
 10:55:55 18 A. Yeah. No, I'm with you.
 10:55:57 19 Q. And you agree with me that the probability
 10:55:59 20 that a surgical light causes a surgical-site infection
 10:56:03 21 is very low.
 10:56:05 22 (Interruption by the reporter.)
 10:56:05 23 A. Yeah, I don't think I've seen any studies
 10:56:08 24 related to that.
 10:56:08 25 Q. And you'd agree with me that comput -- the

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10:53:48 1 A. I've heard that there are case reports like
 10:53:49 2 that, yeah. I can't cite any.
 10:53:52 3 Q. But you've heard of it; right?
 10:53:53 4 A. Yeah.
 10:53:54 5 Q. And you don't disagree with it.
 10:53:55 6 A. If it's a real report, it's a real report,
 10:53:58 7 that's what happened.
 10:53:58 8 Q. And -- And --
 10:53:59 9 A. But what I'm saying is some -- it's really
 10:54:01 10 hard as a clinician, facing those patients, was that
 10:54:04 11 patient infected at the time of surgery, just so we're
 10:54:06 12 clear, or did they went to the dentist, they have
 10:54:09 13 horrible teeth, they had a -- you know, some
 10:54:11 14 manipulation in the mouth and they got a secondary
 10:54:13 15 bacteremia and they settled on the prosthesis. Five
 10:54:16 16 years out you can't tell.
 10:54:18 17 Q. Well you know that secondary bacterium
 10:54:21 18 theory is under a lot of dispute.
 10:54:23 19 A. It might be under dispute, but I'm telling
 10:54:24 20 you as a clinician standing in front of the patient.
 10:54:28 21 Q. Okay. I understand that, but it's not
 10:54:31 22 settled whether or not secondary bacterium from the
 10:54:35 23 mouth causes a periprosthetic joint infection. You've
 10:54:39 24 read articles --
 10:54:39 25 A. That's the deba --

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10:56:11 1 likelihood that computer monitors cause a
 10:56:13 2 surgical-site infection, or the fans in them cause a
 10:56:16 3 surgical-site infection is very low.
 10:56:18 4 A. Yeah. I haven't seen any data linking them.
 10:56:23 5 Q. Okay. And you agree with me that the
 10:56:26 6 computer console and the equipment in them, the
 10:56:29 7 likelihood of them causing a surgical-site infection
 10:56:31 8 is very low.
 10:56:33 9 A. And again I can't cite any papers that link
 10:56:35 10 them, yeah.
 10:56:36 11 Q. So you agree with me.
 10:56:37 12 A. Yeah.
 10:56:37 13 Q. Okay. You agree with me that the
 10:56:41 14 electrocautery device itself has a very low likelihood
 10:56:49 15 of causing a surgical-site infection.
 10:56:52 16 A. Based on not having any data, yeah.
 10:56:54 17 Q. So you agree with me.
 10:56:55 18 You agree with me that a bovie is very
 10:57:01 19 unlikely to cause a surgical-site infection.
 10:57:03 20 MR. COREY GORDON: Object to the form of
 10:57:04 21 the question, also I guess that's asked and answered.
 10:57:07 22 A. I just -- Yeah, I just don't know any data
 10:57:09 23 with the bovie or the knife or...
 10:57:19 24 Q. You agree with me that sterile surgical
 10:57:36 25 drapes are very unlikely to cause a surgical-site

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10:57:39 1 infection.
 10:57:40 2 MR. COREY GORDON: Object to the form of
 10:57:42 3 the question.
 10:57:42 4 A. I would say that anything sterile is
 10:57:45 5 unlikely to cause an infection.
 10:58:23 6 Q. You agree with me that the cabinets along
 10:58:26 7 the walls are very unlikely to cause a surgical-site
 10:58:30 8 infection.
 10:58:31 9 A. Same answer. I haven't seen any data. I
 10:58:34 10 think it's unlikely.
 10:58:35 11 Q. You agree with me that the suction drain
 10:58:38 12 that's in the operating room is very unlikely to cause
 10:58:40 13 a surgical-site infection.
 10:58:42 14 A. Yeah, I think drains have been known to
 10:58:44 15 harbor certain organisms like Pseudomonas, but again,
 10:58:48 16 if you say standard procedures that have been, you
 10:58:53 17 know, done to try to minimize that, I think it's
 10:58:55 18 unlikely.
 10:58:56 19 Q. And when I ask you these questions, doctor,
 10:58:58 20 let's just assume that the hospital, the doctors and
 10:59:01 21 the nurses are following the standard of care.
 10:59:02 22 A. I'm with you.
 10:59:02 23 Q. Okay.
 10:59:05 24 A. I'll follow that.
 10:59:05 25 Q. Okay. Like, for example --

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10:59:05 1 A. I like infection control, so I'm with you.
 10:59:07 2 I'll imagine the perfect hospital.
 10:59:09 3 Q. Okay. Like, for example, we're not
 10:59:10 4 expecting a nurse to take off her mask and sneeze
 10:59:13 5 right into the surgical site, you know, okay?
 10:59:16 6 A. I would hope so.
 10:59:17 7 Q. Okay. You agree with me that sterilized
 10:59:25 8 surgical instruments are very unlikely to cause a
 10:59:27 9 surgical-site infection.
 10:59:28 10 MR. COREY GORDON: Object to the form of
 10:59:29 11 the question.
 10:59:29 12 A. Yeah, in general again, anything sterile.
 10:59:32 13 Now once they're used they're no longer sterile, but,
 10:59:36 14 yes, I think that's true, and I agree with you.
 10:59:39 15 Q. Yeah, I understand that when you cut the
 10:59:41 16 skin they may no longer be sterile; correct?
 10:59:43 17 A. Yes. That's correct.
 10:59:44 18 Q. However, you do understand that in
 10:59:45 19 orthopedic implant surgeries the standard of care is
 10:59:48 20 after you make the first incision -- or some surgeons
 10:59:50 21 would say after you make the first incision to switch
 10:59:53 22 the scalpel.
 10:59:54 23 A. Yes.
 10:59:54 24 MR. COREY GORDON: Object to the form of
 10:59:55 25 the question, lack of foundation, assumes facts not

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10:59:59 1 in evidence.
 11:00:00 2 THE WITNESS: Sorry.
 11:00:07 3 Q. The drop buckets for a used sponge, do you
 11:00:10 4 agree with me that they're very unlikely to cause a
 11:00:13 5 surgical-site infection?
 11:00:14 6 A. Again I'll say the same thing, you know, I
 11:00:16 7 don't know any data, so I think it's low probability.
 11:00:32 8 Q. And same question with the trash receptacle.
 11:00:35 9 You agree with me the trash receptacle is very
 11:00:37 10 unlikely to cause a surgical-site infection.
 11:00:39 11 A. Yes.
 11:00:41 12 Q. And do you agree with me that surgeons
 11:00:45 13 moving their hands is very unlikely to cause a
 11:00:50 14 surgical-site infection?
 11:00:51 15 MR. COREY GORDON: Object to the form of
 11:00:53 16 the question.
 11:00:54 17 A. So a surgeon doing surgery is moving his
 11:00:57 18 hands.
 11:00:57 19 Q. He's moving his hands like this
 11:00:59 20 [demonstrating].
 11:00:59 21 A. Yeah. And is that a cause, assuming that
 11:01:04 22 nothing else is happening? Yeah, I don't think the
 11:01:06 23 movement of hands. Now people talk about the movement
 11:01:09 24 of hands creating more particles and whether that's
 11:01:14 25 linked, we talked about that earlier. It's hard to

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11:01:16 1 show a link with particles and surgical-site
 11:01:19 2 infections.
 11:01:56 3 Q. Have you read Dr. Mont's expert report?
 11:01:59 4 A. Yes, I did look at that.
 11:02:00 5 Q. Okay.
 11:02:01 6 A. Yeah.
 11:02:01 7 Q. Do you criticize anything in his report?
 11:02:04 8 A. Yeah, I don't think I saw anything that I'd
 11:02:06 9 criticize.
 11:02:06 10 Q. Okay. Do you believe that -- Have you read
 11:02:06 11 --
 11:02:37 12 Have you read all the defense expert
 11:02:38 13 reports, all the -- all 12 others?
 11:02:41 14 A. No, I don't think I read 12.
 11:02:43 15 Q. Okay. Have you read Dr. Ho's expert report?
 11:02:47 16 A. No, I didn't see that.
 11:02:49 17 Q. Have you read Dr. Kuehn's expert report?
 11:02:51 18 A. No.
 11:02:51 19 Q. Have you read Dr. Abraham's expert report?
 11:02:57 20 A. No.
 11:03:00 21 Q. So what expert reports have you read? Dr.
 11:03:04 22 Borak?
 11:03:04 23 A. Borak, Holford.
 11:03:08 24 On this side of the table you mean?
 11:03:09 25 Q. Yes.

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11:43:42 1 A. -- and I just can't remember that.
 11:43:45 2 Q. And in fact you -- you know, a lot of the
 11:43:48 3 work you did in Walton, except for, you know, stuff
 11:43:51 4 dealing directly with Walton with the medical records,
 11:43:54 5 you used in your report -- or you had that information
 11:43:56 6 that you used in your report in this case; correct?
 11:43:58 7 A. I'm sure there are parts in both, yeah.
 11:44:00 8 Q. Okay. I mean, you didn't start from scratch
 11:44:06 9 in this case.
 11:44:07 10 A. No.
 11:44:07 11 Q. Okay. Do you know how much you billed in
 11:44:10 12 Walton?
 11:44:11 13 A. Total?
 11:44:11 14 Q. Yes.
 11:44:12 15 A. I don't remember. I don't -- Maybe somebody
 11:44:15 16 here has it, but.
 11:44:18 17 Q. Well by the way, when did you -- when did
 11:44:20 18 you retire from Virginia Commonwealth University?
 11:44:23 19 A. So, formally 2013.
 11:44:27 20 Q. 2013. So you were retired by the time you
 11:44:29 21 started the Walton case; correct?
 11:44:32 22 A. Well, you know, if you were to ask me why'd
 11:44:34 23 you do that, it was -- a lot of it was timing, you
 11:44:37 24 know, I've always been interested in taking care of
 11:44:39 25 these patients. I've never done really a lot

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11:45:31 1 Q. Would you agree with me that most of your
 11:45:33 2 income that you've received since 2013 was -- was most
 11:45:37 3 likely from working on the Bair Hugger case?
 11:45:41 4 A. No, I would disagree with that. I would
 11:45:44 5 guess somewhere a quarter to a third maybe in the last
 11:45:52 6 couple years --
 11:45:52 7 Q. Okay.
 11:45:52 8 A. -- of the total.
 11:45:54 9 Q. Now I'm not talking about your pension
 11:45:55 10 income. I'm talking about non-pension income.
 11:45:58 11 A. Oh, of non-pension income, yeah. This --
 11:46:00 12 This is a large portion of that.
 11:46:02 13 Q. What percentage?
 11:46:05 14 A. Oh, it's probably, you know, except for --
 11:46:09 15 It's huge. It's probably 80 percent or more, yeah.
 11:46:13 16 Q. Okay. Can you give me roughly how much
 11:46:17 17 you -- you billed in Walton?
 11:46:19 18 A. I'm guessing 90,000, something like that,
 11:46:22 19 but --
 11:46:22 20 Q. Okay.
 11:46:24 21 A. -- don't hold me to it. Go ask them.
 11:46:25 22 Q. Around that, give or take 10,000?
 11:46:27 23 A. Go ask them. Yeah.
 11:46:28 24 Q. Do you have those invoices still?
 11:46:30 25 A. I don't think so, but they do, I think, so

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11:44:42 1 medical/legal.
 11:44:43 2 Q. Well that really wasn't my question.
 11:44:44 3 My question was you were retired by the time
 11:44:46 4 you started the Walton case.
 11:44:48 5 A. Yeah, that's right.
 11:44:48 6 Q. Okay.
 11:44:49 7 A. Right about that time, yeah.
 11:44:50 8 Q. Okay. And so after you retired was -- was
 11:44:51 9 your -- was most of your income based on doing the
 11:44:54 10 Walton case?
 11:44:54 11 A. No. I was fine without it, and the motive
 11:44:59 12 wasn't income, because I've never really done much of
 11:45:02 13 this. It was just curiosity and timing.
 11:45:04 14 Q. So what were your sources of income after
 11:45:07 15 you retired?
 11:45:07 16 A. Oh, I have a very good retirement from
 11:45:10 17 TIAA-CREF.
 11:45:13 18 Q. I understand you have a retirement plan, but
 11:45:15 19 my question is: Besides your retirement plan, what
 11:45:17 20 other income did you -- do you have besides --
 11:45:18 21 A. Besides retirement?
 11:45:19 22 Q. Uh-huh.
 11:45:20 23 A. Occasionally giving talks, sometimes --
 11:45:25 24 yeah, I guess Social Security, if that's what you're
 11:45:29 25 asking, as well.

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11:46:30 1 you --
 11:46:32 2 Q. Greenberg Traurig?
 11:46:33 3 A. Yeah. I would just -- If you need that.
 11:46:35 4 Q. Did you bill any time for Johnson?
 11:46:38 5 A. Probably, yeah.
 11:46:39 6 Q. Do you know how much you billed for Johnson?
 11:46:41 7 A. No. I think -- I lumped them together when
 11:46:41 8 I --
 11:46:41 9 Q. Okay.
 11:46:44 10 A. -- gave you that figure, so -- and I'm not
 11:46:46 11 trying to be cagey, I just don't remember.
 11:46:49 12 Q. So basically since two thousand -- since you
 11:46:53 13 began in -- began working on this case --
 11:46:53 14 A. Yeah.
 11:46:54 15 Q. -- you approximate over \$300,000.
 11:46:57 16 A. Yeah.
 11:47:00 17 Q. And my understanding is you -- you billed
 11:47:04 18 over \$300,000 to do a -- a literature review and to
 11:47:10 19 formulate opinions off the literature.
 11:47:12 20 MR. COREY GORDON: Object to the form of
 11:47:14 21 the question.
 11:47:14 22 A. Yeah, to -- Yeah. I mean basically I
 11:47:17 23 reviewed the literature, came up with opinions, did my
 11:47:20 24 best to cite all the articles, pro or con.
 11:47:24 25 Q. Okay. So the answer to my question is

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11:52:36 1 A. That's true.
 11:52:37 2 Q. Okay. Do you have a company that it goes
 11:52:39 3 to, or it just goes to you personally?
 11:52:42 4 A. No.
 11:52:42 5 Q. Okay.
 11:52:42 6 A. I haven't become sophisticated like that.
 11:52:44 7 Q. And it seems like you spent -- the total
 11:52:46 8 number of hours spent is 380 hours -- 380.75 hours.
 11:52:59 9 That sound about right?
 11:53:01 10 A. Probably right.
 11:53:02 11 Q. Okay. And Ms. Briley spent about 196 hours;
 11:53:06 12 correct?
 11:53:06 13 A. Well I didn't add that up, so I'm assuming
 11:53:07 14 you're right.
 11:53:08 15 Q. Okay.
 11:53:09 16 A. If it matches this, you know.
 11:53:10 17 Q. Okay. So that's the total of, you know,
 11:53:12 18 over 500 hours between you and Ms. Briley.
 11:53:16 19 A. Umm-hmm.
 11:53:16 20 Q. Is that correct?
 11:53:17 21 A. Yeah.
 11:53:19 22 Q. Okay. And approximately how many hours did
 11:53:19 23 you spend on the Walton-Johnson case?
 11:53:23 24 A. I don't know. I mean, that's why I said the
 11:53:25 25 total might have been close to \$90,000, so.

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11:53:28 1 Q. And you charge how much per hour?
 11:53:30 2 A. Six hundred.
 11:53:30 3 Q. So 90,000 divided by 600 equals about 150
 11:53:35 4 hours. This sound about right, give or take?
 11:53:37 5 A. That sounds about right.
 11:53:38 6 Q. Okay. So so far between you and M --
 11:53:40 7 Did Ms. Briley work on the Walton case?
 11:53:45 8 A. I think she did, yes.
 11:53:49 9 Q. Do you know how many hours that she billed?
 11:53:51 10 A. I don't, actually. Don't remember that.
 11:54:06 11 Q. So between you and Ms. Briley, and not
 11:54:09 12 counting her time on Walton, the two of you spent over
 11:54:12 13 720 hours on this case.
 11:54:15 14 A. Yeah. Sounds about right.
 11:54:17 15 Q. Okay. Did you ever recommend to 3M to --

let's -- to do a study?

11:54:24 17 A. No.
 11:54:25 18 Q. Okay. Why not?
 11:54:29 19 A. I haven't met with 3M.
 11:54:30 20 Q. Or their attorneys.
 11:54:32 21 A. Ask the attorneys to do a study?
 11:54:35 22 Q. I mean, hey, why don't you recommend -- you
 11:54:36 23 should recommend to 3M to do a study?
 11:54:38 24 A. I have never asked them that.
 11:54:40 25 Q. Okay. You're not an expert in aerobiology;

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11:55:00 1 correct?
 11:55:01 2 A. I'm not an expert in aerobiology.
 11:55:03 3 Q. You're not an expert in microbiology;
 11:55:05 4 correct?
 11:55:06 5 A. In what?
 11:55:06 6 Q. Microbiology?
 11:55:07 7 A. Well, I'd caution you there. I mean, I
 11:55:10 8 think microbiology is the basis of infectious
 11:55:13 9 diseases, and in that interface between micro and
 11:55:17 10 infectious disease I am an expert.
 11:55:19 11 Q. But you're not an microbiologist.
 11:55:20 12 A. I'm not a --
 11:55:21 13 I don't have a degree in microbiology.
 11:55:23 14 Q. Okay. You don't consider yourself an expert
 11:55:29 15 in orthopedics; correct?
 11:55:32 16 A. Only the interface, again, between
 11:55:34 17 orthopedics and infectious diseases. I'm not an
 11:55:39 18 orthopedic surgeon.
 11:55:40 19 Q. You don't consider yourself an expert in
 11:55:42 20 medical device design; correct?
 11:55:43 21 A. That's true.
 11:55:44 22 Q. You don't consider yourself an expert in
 11:55:45 23 medical device warnings; correct?
 11:55:47 24 A. Warnings, no.
 11:55:48 25 Q. You don't consider yourself an expert in

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11:53:28 1 Q. And you charge how much per hour?
 11:53:30 2 A. Six hundred.
 11:53:30 3 Q. So 90,000 divided by 600 equals about 150
 11:53:35 4 hours. This sound about right, give or take?
 11:53:37 5 A. That sounds about right.
 11:53:38 6 Q. Okay. So so far between you and M --
 11:53:40 7 Did Ms. Briley work on the Walton case?
 11:53:45 8 A. I think she did, yes.
 11:53:49 9 Q. Do you know how many hours that she billed?
 11:53:51 10 A. I don't, actually. Don't remember that.
 11:54:06 11 Q. So between you and Ms. Briley, and not
 11:54:09 12 counting her time on Walton, the two of you spent over
 11:54:12 13 720 hours on this case.
 11:54:15 14 A. Yeah. Sounds about right.
 11:54:17 15 Q. Okay. Did you ever recommend to 3M to --

let's -- to do a study?

11:54:24 17 A. No.
 11:54:25 18 Q. Okay. Why not?
 11:54:29 19 A. I haven't met with 3M.
 11:54:30 20 Q. Or their attorneys.
 11:54:32 21 A. Ask the attorneys to do a study?
 11:54:35 22 Q. I mean, hey, why don't you recommend -- you
 11:54:36 23 should recommend to 3M to do a study?
 11:54:38 24 A. I have never asked them that.
 11:54:40 25 Q. Okay. You're not an expert in aerobiology;

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11:55:50 1 patient warming; correct?
 11:55:50 2 A. In what?
 11:55:51 3 Q. Patient warming.
 11:55:52 4 A. A expert in patient warming?
 11:55:54 5 Q. Yeah.
 11:55:55 6 A. Only as it is influenced in this case with
 11:55:58 7 the infectious disease part, but not --
 11:56:00 8 Q. And everything that you opine is going to
 11:56:03 9 be --
 11:56:03 10 A. -- warming.
 11:56:04 11 Q. -- is going to be based on a literature
 11:56:05 12 review and not your own personal --
 11:56:10 13 A. That's true.
 11:56:10 14 Q. -- directed research.
 11:56:11 15 A. Yes, that's --
 11:56:11 16 (Interruption by the reporter.)
 11:56:11 17 (Discussion off the stenographic
 11:56:14 18 record.)
 11:56:14 19 Q. Correct?
 11:56:14 20 A. Yes.
 11:56:15 21 Q. Okay. You're not an expert in operating
 11:56:17 22 room design; correct?
 11:56:18 23 A. Correct.
 11:56:19 24 Q. Have you read any of the ASHRAE articles or
 11:56:24 25 chapters regarding operating room design?

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11:56:26 1 A. Don't think so.
 11:56:28 2 Q. Are you aware that it is estimated between
 11:56:34 3 one million to 900 million skin squames are shed
 11:56:40 4 during a two- to four-hour surgery?
 11:56:42 5 MR. COREY GORDON: Object to the form of
 11:56:44 6 the question.

11:56:44 7 A. So I didn't go to the primary literature but
 11:56:47 8 I've seen that in a couple depositions.
 11:56:49 9 Q. Do you disagree with that?

11:56:50 10 A. No reason to disagree or agree.

11:56:52 11 Q. Okay. You have no experience in
 11:57:02 12 operating-room airflow; correct?

11:57:05 13 A. Any experience, no.

11:57:06 14 Q. Okay. You don't consider you're an expert
 11:57:07 15 in operating airflow?

11:57:09 16 A. That's true.

11:57:10 17 Q. I think I've asked you this before, but
 11:57:11 18 you're not an expert in particle flow; correct?

11:57:13 19 A. In particle flow, no. I'm not.

11:57:16 20 Q. Do you agree with me that Dr. Elghobashi is
 11:57:18 21 an expert in particle flow and turbulent air?

11:57:21 22 MR. COREY GORDON: Object to the form of
 11:57:22 23 the question, lack of foundation.

11:57:22 24 A. I have no idea of his expertise.

11:57:24 25 Q. Well you've rea -- you've seen his report;

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11:58:41 1 including, at least, a downflow current towards the
 11:58:44 2 floor, whipping up some kind of particles into the air
 11:58:51 3 near the operative site, and therefore they think that
 11:58:56 4 the Bair Hugger, having done that, relates to
 11:59:01 5 infections. That's my understanding.

11:59:03 6 Q. You don't disagree that the Bair Hugger
 11:59:04 7 generates heat; correct?

11:59:06 8 A. It does generate some heat.

11:59:08 9 Q. Well do you know how much heat?

11:59:10 10 A. I don't.

11:59:10 11 Q. Okay. Well you used the term "some." Do
 11:59:13 12 you know -- You're just -- you're not --
 11:59:15 13 You're not quantifying it; correct?

11:59:16 14 A. I'm not.

11:59:17 15 Q. Okay. You do agree that the Bair Hugger,
 11:59:20 16 the holes are facing down; correct?

11:59:22 17 A. Yes.

11:59:22 18 Q. Onto the patient?

11:59:23 19 A. Yes.

11:59:24 20 Q. In an orthopedic surgery.

11:59:25 21 A. Yes.

11:59:25 22 Q. Okay. So you do agree that it creates
 11:59:27 23 current, air currents.

11:59:29 24 A. I think it does.

11:59:30 25 Q. Okay. And you agree that --
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11:57:26 1 correct?
 11:57:26 2 A. Yeah. I didn't understand most of it.
 11:57:26 3 Q. Did you --
 11:57:27 4 And you didn't have an opportunity to
 11:57:29 5 compare our expert's report to defense expert's
 11:57:31 6 report; did you?
 11:57:32 7 A. No. Only what I saw on Science Day,
 11:57:35 8 basically.

11:57:36 9 Q. Okay. And you're not an expert in turbulent
 11:57:44 10 flow; correct?

11:57:45 11 A. In turbulent flow? No, I'm not an expert in
 11:57:48 12 turbulent flow.

11:57:49 13 Q. Okay. Have you read the Complaint in this
 11:58:01 14 case?

11:58:06 15 A. I think I may have read it at the time of
 11:58:09 16 Walton, and -- I remember seeing that.

11:58:12 17 Q. Okay.

11:58:13 18 A. More recently I don't think I looked at
 11:58:14 19 anything.

11:58:15 20 Q. What is your understanding of plaintiffs'
 11:58:17 21 claims in this case with respect to the mechanism of
 11:58:20 22 injury of a Bair Hugger causing a -- an infection?

11:58:27 23 A. My understanding is that the plaintiffs are
 11:58:30 24 saying that there is heat generated from the Bair
 11:58:36 25 Hugger, and it creates currents, particularly --

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11:59:37 1 Do you know what the first law of
 11:59:38 2 thermodynamics is?

11:59:39 3 A. No. I know you like to ask that question,
 11:59:42 4 but I don't know it.

11:59:44 5 Q. How do you know I like to ask that question?
 11:59:46 6 A. Somewhere in -- you were deposing somebody

11:59:48 7 and it was one of your earlier questions.

11:59:50 8 Q. Okay. Do you agree that hot air is less
 11:59:54 9 dense than cold air? If you know.

11:59:57 10 A. Yes, I think. Less dense, yes.

12:00:01 11 Q. You've seen a hot air balloon; correct?

12:00:04 12 A. Yes.

12:00:04 13 Q. Okay. And hot air balloons actually rise;
 12:00:05 14 correct?

12:00:06 15 A. Yeah, they do.

12:00:07 16 Q. Okay. You're not going to disagree with the
 12:00:08 17 laws of thermodynamics; are you?

12:00:10 18 A. I have no idea what the law of
 12:00:11 19 thermodynamics is.

12:00:12 20 Q. Okay. Okay. You're going to defer to the
 12:00:13 21 engineers in this case.

12:00:14 22 A. To you.

12:00:15 23 Q. To me? You'd defer --

12:00:15 24 A. Yeah.

12:00:16 25 Q. -- to me as well. Okay.

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12:00:18 1 Unfortunately, I can't testify.
 12:00:22 2 (Laughter.)
 12:00:22 3 Q. Which is a good thing, because I think Corey
 12:00:24 4 would love to take my deposition.
 12:00:26 5 And you agree with me that skin squames have
 12:00:38 6 a mass; correct?
 12:00:41 7 A. "Have a mass"? You mean they're not just
 12:00:44 8 energy, is that what you're asking?
 12:00:45 9 Q. Yes.
 12:00:45 10 A. Yes.
 12:00:46 11 Q. Okay. And you agree with me that gravity
 12:00:48 12 exists in an operating room; correct?
 12:00:49 13 A. It exists everywhere.
 12:00:50 14 Q. Okay. Now just so I understand your
 12:01:06 15 opinion, assuming that the plaintiffs' engineering
 12:01:12 16 theory is correct that the hot air causes contaminated
 12:01:20 17 air from underneath the operating table to rise to
 12:01:23 18 above the operating room surgical table, is it correct
 12:01:27 19 that your opinion is going to be that since you
 12:01:30 20 believe that most of the surgical-site infections are
 12:01:35 21 caused by the patient's flora, that the effect of the
 12:01:39 22 Bair Hugger is irrelevant?
 12:01:40 23 MR. COREY GORDON: Object to the form of
 12:01:42 24 the question, incomplete hypothetical.
 12:01:46 25 A. I've told you separately I think most

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12:03:00 1 A. So if -- if there, you know, was a study
 12:03:03 2 that was being planned, one of the things I would do
 12:03:07 3 is link the -- what was found in the air,
 12:03:13 4 microbiologically, with what was found somewhere else,
 12:03:17 5 not on the patient flora, if you could do that.
 12:03:20 6 Because you're positing that things come up from the
 12:03:23 7 floor. And link what's on the floor, link what's in
 12:03:27 8 the air and link what's in the patient's wound, and
 12:03:31 9 show me it's the same -- pick a organism, Staph
 12:03:38 10 aureus, with the same fingerprint.
 12:03:40 11 Q. Okay. And how many patients do you think
 12:03:41 12 you would need to do that study?
 12:03:43 13 A. I don't know.
 12:03:44 14 Q. Like -- Like 50, a thousand, 10,000?
 12:03:48 15 MR. COREY GORDON: Object to the form of
 12:03:50 16 the question, lack of foundation.
 12:03:50 17 A. Well --
 12:03:51 18 Q. And I'm talking about with respect to a
 12:03:53 19 total hip or total knee arthroplasty.
 12:03:55 20 A. You'd need a lot of patients to show -- to
 12:03:58 21 show that. And you have to do a multi-centered study,
 12:04:02 22 and we'll get a statistician to look at what you'd
 12:04:07 23 expect. But I, off the cuff, wouldn't come up with an
 12:04:11 24 answer.
 12:04:12 25 Q. So you'd want to do microbiological sampling
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12:01:49 1 infections come from the patient flora, no question.
 12:01:53 2 Now you're asking me a hypothetical assuming that
 12:01:56 3 everything that the plaintiffs say is correct, would
 12:02:00 4 that have an influence. And it might, but that's an
 12:02:05 5 assumption.
 12:02:06 6 Q. So -- So if the plaintiffs are correct that
 12:02:10 7 the Bair Hugger causes contaminants from underneath
 12:02:12 8 the operating room floor to actually go into the --
 12:02:16 9 above and into the surgical site, that may have an
 12:02:19 10 effect on your opinion?
 12:02:21 11 A. If everything that you say was validated,
 12:02:24 12 and I don't -- I don't think we're there yet, in this
 12:02:27 13 hypothetical situation, it might contribute. We have
 12:02:33 14 no data, I think, to really convince people that the
 12:02:36 15 Bair Hugger actually leads to infections.
 12:02:38 16 Q. Okay. How do we get there?
 12:02:41 17 A. How do we get the data?
 12:02:42 18 Q. Yeah.
 12:02:43 19 A. Well what I've tried to do is do the
 12:02:46 20 following.
 12:02:47 21 Q. Well I understand what you did. You said
 12:02:49 22 we're not there yet. That was your -- That was your
 12:02:52 23 answer. So how do we -- What would you do today to
 12:02:55 24 determine the answer to that question? Not looking at
 12:02:57 25 literature in the past, but what would you do today?

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12:04:15 1 of, like, what's underneath the operating room table;
 12:04:17 2 correct?
 12:04:17 3 A. Yeah, because you said that's where it
 12:04:19 4 starts.
 12:04:19 5 Q. And you want to do microbio --
 12:04:21 6 microbiological sampling of the patient's flora in the
 12:04:25 7 wound.
 12:04:25 8 A. Right.
 12:04:27 9 Q. Okay. And I think you said one other
 12:04:28 10 microbiologic sample.
 12:04:29 11 A. It would have to be in the air --
 12:04:29 12 Q. Okay.
 12:04:30 13 A. -- because you said it comes up in the air,
 12:04:32 14 in your hypothetical.
 12:04:32 15 Q. So what's in the air before you turn the
 12:04:35 16 Bair Hugger on; correct?
 12:04:36 17 A. Before and during.
 12:04:37 18 Q. Okay, during.
 12:04:38 19 And then you want to also determine which
 12:04:41 20 patients obtained infections; correct?
 12:04:43 21 A. Right. Right.
 12:04:44 22 Q. And so for total hip and total knee you
 12:04:46 23 might need 10,000 patients.
 12:04:47 24 A. A lot of patients.
 12:04:49 25 Q. Okay. And so that study would be very,

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12:17:20 1 A. I think I've seen up to --
 12:17:22 2 Q. Okay.
 12:17:23 3 A. -- four or five.
 12:17:24 4 Q. Okay. And some might have a cluster on it
 12:17:26 5 that might have 20, 30.
 12:17:28 6 A. Yeah, I don't know that.
 12:17:29 7 Q. Okay. I mean, bacteria go into clusters;
 12:17:33 8 correct?
 12:17:33 9 A. They do clump.
 12:17:35 10 Q. Okay. And they could clump as few as 3 and
 12:17:36 11 as many as hundreds.
 12:17:38 12 A. Yeah, I don't know about hundreds. I just
 12:17:40 13 -- I just can't say I know that, but maybe.
 12:17:44 14 Q. More than ten.
 12:17:45 15 A. Yeah.
 12:17:45 16 Q. Probably more than twenty.
 12:17:46 17 A. I don't know.
 12:17:48 18 Q. Okay. So there is a difference with respect
 12:17:53 19 to the infection dose of an implant if the bacteria
 12:17:58 20 lands on an implant as compared to the -- if the
 12:18:00 21 bacteria lands on -- on skin.
 12:18:02 22 A. That's not what they really showed. They
 12:18:04 23 didn't say "land on." They injected it.
 12:18:07 24 Q. Okay. Well --
 12:18:08 25 A. That's different. Surgeons don't go in and

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12:18:11 1 shoot a number of organisms into the joint.
 12:18:15 2 Q. Well you agree with me that -- forget about
 12:18:18 3 the way it -- the bacteria gets there, okay, whether
 12:18:21 4 or not it's -- it's injected. I mean, the bacteria
 12:18:23 5 got to the joint in this case; correct? To the -- the
 12:18:27 6 prosthesis.
 12:18:28 7 A. But how can I forget how they got there?
 12:18:28 8 Q. Okay.
 12:18:30 9 A. I'm not sure --
 12:18:31 10 Q. So is that a limitation of the study?
 12:18:34 11 A. Oh. Well if you want to posit that the air
 12:18:37 12 is important, nobody has done the infectious dose by
 12:18:41 13 the air.
 12:18:43 14 Q. Well that would be unethical, wouldn't it,
 12:18:46 15 in a human?
 12:18:46 16 A. Well that would be unethical in a human, but
 12:18:49 17 you could count, in the study that I was proposing, or
 12:18:52 18 in another study, show me that one organism in the
 12:18:55 19 air, a markered orga -- markered species that landed
 12:19:01 20 later into the wound, not start with the wound and go
 12:19:01 21 out, --
 12:19:01 22 Q. Let me ask you this --
 12:19:04 23 A. -- and then caused an infection with that
 12:19:06 24 same --
 12:19:06 25 Q. Okay.

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12:19:06 1 A. -- genus and species and same fingerprint.
 12:19:10 2 Q. Let me ask you this question.
 12:19:12 3 A. Yeah.
 12:19:14 4 Q. If Darouiche's study, the one that came out
 12:19:17 5 recently which you emailed him about. Do you recall
 12:19:19 6 that?
 12:19:20 7 A. Yeah.
 12:19:20 8 Q. Okay. He did a microbiology study and it
 12:19:21 9 indicated that the -- the -- the bacteria came from
 12:19:26 10 the air, you know, because of the increased bacterial
 12:19:30 11 load over -- over the surgical site. Would that
 12:19:32 12 change your opinion in this case?
 12:19:34 13 A. What he showed was a correlation between
 12:19:38 14 particles and bacteria and the four infections, and he
 12:19:43 15 modeled that to get the correlation.
 12:19:45 16 Q. And your criticism of him is that he didn't
 12:19:48 17 do any microbiological testing.
 12:19:49 18 A. That's one, yeah, sure. I think that's
 12:19:51 19 important.
 12:19:52 20 Q. Because you're not sure whether the bacteria
 12:19:54 21 came from the flora or from the air; correct? The
 12:19:57 22 patient's flora or the air.
 12:19:58 23 A. Yeah.
 12:19:58 24 Q. Okay. If he did do microbiological testing
 12:20:00 25 and indicated that the bacteria that caused the

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12:20:02 1 infections came from the bacteria that was in the air,
 12:20:04 2 would that change your opinion with respect to whether
 12:20:07 3 or not bacterial load in the air has a -- has a impact
 12:20:10 4 on periprosthetic joint infections?
 12:20:12 5 A. Well --
 12:20:12 6 MR. COREY GORDON: Object to the form of
 12:20:12 7 the question, --
 12:20:12 8 A. Yeah.
 12:20:14 9 MR. COREY GORDON: -- misstate --
 12:20:15 10 mischaracterizes his testimony.
 12:20:16 11 THE WITNESS: Thank you. I didn't mean to
 12:20:17 12 interrupt, but.
 12:20:18 13 A. So one of the things you would like to know
 12:20:21 14 is if there's an organism in the air and if we did
 12:20:25 15 this hypothetical study where we actually had good
 12:20:29 16 microbiology; did it start, first of all, in the flora
 12:20:32 17 of the patient, the microbiome, somehow get into the
 12:20:35 18 air -- I mean, I can imagine how that might happen,
 12:20:38 19 and then land -- or are we talking about a totally
 12:20:42 20 different organism that started on the ground, which
 12:20:45 21 is what you postulated initially, got whipped up by a
 12:20:49 22 device and then hung over the wound and then caused
 12:20:54 23 the infection.
 12:20:57 24 Q. Are you asking me a question?
 12:20:59 25 A. Well, no. I'm just trying to answer you.

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12:20:02 1 infections came from the bacteria that was in the air,
 12:20:04 2 would that change your opinion with respect to whether
 12:20:07 3 or not bacterial load in the air has a -- has a impact
 12:20:10 4 on periprosthetic joint infections?
 12:20:12 5 A. Well --
 12:20:12 6 MR. COREY GORDON: Object to the form of
 12:20:12 7 the question, --
 12:20:12 8 A. Yeah.
 12:20:14 9 MR. COREY GORDON: -- misstate --
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 12:20:17 12 interrupt, but.
 12:20:18 13 A. So one of the things you would like to know
 12:20:21 14 is if there's an organism in the air and if we did
 12:20:25 15 this hypothetical study where we actually had good
 12:20:29 16 microbiology; did it start, first of all, in the flora
 12:20:32 17 of the patient, the microbiome, somehow get into the
 12:20:35 18 air -- I mean, I can imagine how that might happen,
 12:20:38 19 and then land -- or are we talking about a totally
 12:20:42 20 different organism that started on the ground, which
 12:20:45 21 is what you postulated initially, got whipped up by a
 12:20:49 22 device and then hung over the wound and then caused
 12:20:54 23 the infection.
 12:20:57 24 Q. Are you asking me a question?
 12:20:59 25 A. Well, no. I'm just trying to answer you.

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12:54:30 1 Q. The third one down, New Zealand --
 12:54:30 2 A. Oh, third one down.
 12:54:30 3 Q. Yes.
 12:54:30 4 A. Oh, okay.
 12:54:32 5 Q. I'm sorry, that's the second New Zealand.
 12:54:34 6 A. All right. Okay.
 12:54:35 7 Q. New Zealand likes their rabbits, I guess,
 12:54:37 8 huh?
 12:54:37 9 A. Yeah. Okay. Got it.
 12:54:39 10 Q. So you agree that study wasn't -- it was
 12:54:41 11 just to show the mechanism of these implants getting
 12:54:44 12 infected, they didn't look at inoculation dose.
 12:54:48 13 A. Well a lot of studies in fact are trying to
 12:54:51 14 get as high a infected dose so they can actually track
 12:54:56 15 what's going on with these type of infections rather
 12:54:58 16 than scaling up the dose to know exactly what the ID₅₀
 12:55:03 17 is, for example.
 12:55:04 18 Q. Exactly.
 12:55:04 19 And this study, if you recall, they were
 12:55:06 20 looking about ho -- tracking the infection and they
 12:55:10 21 did MRIs and everything. Do you recall?
 12:55:11 22 A. Umm-hmm.
 12:55:14 23 Q. "Yes"?

12:55:14 24 A. Yes.
 12:55:15 25 Q. Okay.

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12:56:18 1 A. Well the focus I had was on the infecting
 12:56:18 2 dose.
 12:56:18 3 Q. Okay.
 12:56:21 4 A. That's what I was trying to get at.
 12:56:24 5 Q. Well this didn't really talk about infecting
 12:56:25 6 dose, this was more of, like, what occurs when the
 12:56:27 7 patien -- when the -- when the rabbit gets infected,
 12:56:30 8 and following the infection by doing MRI; correct?
 12:56:32 9 MR. COREY GORDON: Object to the form of
 12:56:33 10 the question.
 12:56:33 11 A. What --
 12:56:34 12 Q. Correct; "yes" or "no"?
 12:56:35 13 A. In other words, I'm trying to find any data
 12:56:37 14 that I could, at least in a brief survey, of what it
 12:56:40 15 takes to infect the joint, --
 12:56:41 16 Q. Okay. So you like --
 12:56:42 17 A. -- and this was one of the studies.
 12:56:44 18 Q. So you like to take -- you like to take the
 12:56:45 19 data that supports your position --
 12:56:46 20 A. No.
 12:56:47 21 Q. -- and then disregard data that doesn't
 12:56:48 22 support your position; correct?
 12:56:50 23 A. No, that's not true.
 12:56:51 24 Q. So you think that --
 12:56:52 25 A. I've already shown you studies where there

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12:55:28 1 (Discussion off the stenographic record.)
 12:55:28 2 (Wenzel Exhibit 9 marked for
 12:55:35 3 identification.)
 12:55:35 4 (Discussion off the stenographic record.)
 12:55:35 5 BY MR. ASSAAD:
 12:55:35 6 Q. Doctor, you've read this study; correct?
 12:55:37 7 A. I have.
 12:55:38 8 Q. And you relied upon this study; correct?
 12:55:41 9 A. I did.
 12:55:41 10 Q. Okay. Let's go to the "Discussion" section
 12:55:47 11 on page 3 of this study.
 12:55:52 12 A. Okay.
 12:55:54 13 Q. On the second paragraph under "Discussion"
 12:55:56 14 it says: "Because the main source of contamination in
 12:56:00 15 total joint replacement is wound infection via
 12:56:03 16 operating room air, we attempted to mimic
 12:56:05 17 perioperative contamination by inoculating the
 12:56:07 18 bacteria into the joint immediately after wound
 12:56:10 19 closure."
 12:56:10 20 Did I read that correctly?
 12:56:13 21 A. Yes. That's what they say.
 12:56:13 22 Q. You disagree with that; don't you?
 12:56:15 23 A. I do.
 12:56:15 24 Q. Okay. So disagree with a study that you
 12:56:16 25 think is authoritative; correct?

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12:56:55 1 were data that I had, some clinical data, where it
 12:56:57 2 didn't support it, so you know that.
 12:56:59 3 Q. But you disregard the -- the -- these
 12:57:01 4 authors here that did this study that said that the --
 12:57:05 5 that -- that the main source of contamination in total
 12:57:10 6 joint replacement is wound infection via operating
 12:57:12 7 room.
 12:57:12 8 You disregard that; correct?
 12:57:13 9 A. I disagree with that. That had nothing
 12:57:16 10 related -- They didn't look at where the organisms
 12:57:18 11 came from here. They had them in the syringe and
 12:57:21 12 injected them.
 12:57:22 13 Q. Okay. But that's why they injected them the
 12:57:25 14 way they did; correct?
 12:57:26 15 MR. COREY GORDON: Object to the form of
 12:57:27 16 the question, also lack of foundation.
 12:57:28 17 Q. I mean --
 12:57:28 18 A. I don't know why they did what they did, but
 12:57:30 19 they do say that they -- they think it's airborne. I
 12:57:34 20 disagree with that.
 12:57:34 21 Q. It says --
 12:57:34 22 A. They injected animals, and that's the kind
 12:57:37 23 of dose that they used to get infection.
 12:57:38 24 Q. "...we attempted to mimic perioperative
 12:57:40 25 contamination by inoculating the bacteria in the joint

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13:22:53 1 A. I don't know.
 13:22:54 2 Q. A millimeter?
 13:22:55 3 A. I don't know. Never seen any data on that.
 13:22:58 4 I'm not sure.
 13:22:59 5 Q. You don't know how thick the skin is?
 13:23:01 6 A. No. Don't know.
 13:23:04 7 Q. Okay. You've never --
 13:23:08 8 A. Don't remember looking at it.
 13:23:09 9 Q. -- never done -- in medical school did -- on
 13:23:12 10 a cadaver and cut through the skin?
 13:23:15 11 A. I did -- I did do that, yeah.
 13:23:15 12 Q. Okay.
 13:23:16 13 A. Wasn't very far, but I don't know.
 13:23:17 14 Q. I mean, are we talking two inches?
 13:23:19 15 A. Probably not two inches. Less.
 13:23:21 16 Q. An inch?
 13:23:21 17 A. I don't know. I already --
 13:23:21 18 Q. So you don't know?
 13:23:22 19 A. -- told you I don't know.
 13:23:24 20 Q. Okay. All right.
 13:23:24 21 How far is it between the -- the sweat
 13:23:34 22 gland, which I think is the lowest, and a knee joint?
 13:23:41 23 A. I don't know.
 13:23:42 24 Q. How far is it between a sweat gland --
 13:23:44 25 Well you agree the sweat gland look likes
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13:24:37 1 Q. And you agree with me that there's no
 13:24:40 2 bacteria in the blood if the person doesn't have some
 13:24:41 3 sort of blood infection.
 13:24:42 4 A. By definition.
 13:24:44 5 Q. Okay. Because in fact if someone had sepsis
 13:24:47 6 or a blood infection it probably wouldn't be a good
 13:24:50 7 time to do elective surgery; correct?
 13:24:52 8 MR. COREY GORDON: Object --
 13:24:52 9 A. To do what?
 13:24:53 10 Q. Elective surgery.
 13:24:54 11 MR. COREY GORDON: Object to the form of
 13:24:55 12 the question, also lack of foundation.
 13:24:56 13 A. I don't think I understand the question I
 13:24:57 14 guess.
 13:24:57 15 Q. Well if someone had an infection, an ongoing
 13:24:59 16 infection, --
 13:24:59 17 A. Oh.
 13:25:00 18 Q. -- it wouldn't be -- it wouldn't be proper
 13:25:01 19 to do --
 13:25:01 20 A. Oh, I see.
 13:25:04 21 Q. -- elective surgery.
 13:25:04 22 A. I'm sorry. Didn't understand the que --
 13:25:05 23 Yeah. I try to --
 13:25:05 24 MR. COREY GORDON: Wait until he finishes.
 13:25:07 25 THE REPORTER: Yes, please.
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13:23:47 1 it's the lowest in this picture here?
 13:23:49 2 A. Well in the picture it looks like it's at
 13:23:51 3 the same level as the sebaceous glands roughly, so.
 13:23:54 4 Q. Okay. Well let's just say whatever is
 13:23:56 5 lowest, how far do you think the bacteria is that's on
 13:23:59 6 a patient's skin or in the glands or -- from a knee
 13:24:04 7 joint?
 13:24:06 8 A. I don't know how -- what the distance is in
 13:24:08 9 millimeters or not.
 13:24:09 10 Q. Okay. Well you agree that there's no -- I
 13:24:13 11 mean, if a person is not -- doesn't have sepsis or an
 13:24:15 12 infection there's no bacteria in the fat; correct?
 13:24:22 13 A. I think that's true.
 13:24:23 14 Q. Okay. And --
 13:24:24 15 A. No. No. Well in the fat, yeah. I think
 13:24:27 16 that's true.
 13:24:27 17 Q. And you agree with me there'd be no bacteria
 13:24:29 18 in the muscle if a person doesn't have an infection.
 13:24:29 19 A. Yes.
 13:24:32 20 Q. Ongoing infection; correct?
 13:24:33 21 A. If they don't have an infection?
 13:24:33 22 Q. Ongoing infection, yeah.
 13:24:33 23 A. Yes.
 13:24:33 24 Q. Okay. And you agree with me that the --
 13:24:37 25 (Interruption by the reporter.)
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13:25:08 1 A. So to answer the question. One of the
 13:25:11 2 things that you want to do for any surgery that's
 13:25:15 3 elective is not to have any source of infection
 13:25:18 4 anywhere.
 13:25:27 5 Q. Okay. So you mentioned that there is the --
 13:25:29 6 the chlorhex with alcohol and the io -- iophorm [ph]?
 13:25:34 7 A. Iodophor.
 13:25:36 8 Q. Iodophor with alcohol.
 13:25:37 9 What percentage of the bacteria do those
 13:25:39 10 prep solutions kill?
 13:25:42 11 A. I don't think I know the answer to that, but
 13:25:43 12 a high proportion.
 13:25:44 13 Q. 99.9?
 13:25:46 14 A. I don't know.
 13:25:47 15 Q. You don't know?
 13:25:48 16 A. Might be, but I don't know. I can't cite
 13:25:51 17 any -- And if I answer you I want to try to cite the
 13:25:54 18 reference, that's what I'm saying.
 13:25:54 19 Q. Okay. So sitting here today, you don't
 13:25:56 20 know.
 13:25:56 21 A. No.
 13:25:57 22 Q. Okay. And does it kill the bacteria that's
 13:25:59 23 in the -- the subacaneous -- or the sebaceous gland?
 13:26:06 24 A. No, it doesn't.
 13:26:07 25 Q. Okay. What about the sweat glands?
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13:36:10 1 A. Well I would say there's no study out there,
 13:36:12 2 but if you take skin, the -- what we're really talking
 13:36:17 3 about is controlling the microbiome. And if you said
 13:36:20 4 to me today, I've got to get a hip replacement, I
 13:36:25 5 would tell you chlorhexidine alcohol, just as Dr. Reed
 13:36:28 6 did in his study, after awhile.

13:37:35 7 Q. You would agree with me that if -- if a --
 13:37:43 8 Strike that.

13:37:44 9 If the bacteria comes from the patient's
 13:38:08 10 skin -- Let's take out P. acnes, okay? We could agree
 13:38:12 11 that P. acnes is a very unlikely cause of a infection
 13:38:16 12 for a total hip or total knee arthroplasty; correct?

13:38:19 13 A. Yes.

13:38:19 14 Q. Okay. Let's just assume all my questions is
 13:38:22 15 excluding P. acnes when I talk about bacteria going
 13:38:24 16 forward. Correct? Do you understand that?

13:38:27 17 A. If you want to make an assumption, yes.

13:38:30 18 Q. Yes. How does the bacteria get from the
 13:38:44 19 skin to the periprosthetic joint to cause an infection
 13:38:51 20 during the operation? If you know.

13:38:55 21 A. Well I have to go back to P. acnes, because
 13:38:57 22 it's the only study that shows that it's already there
 13:39:03 23 at the time of the incision, so it -- it's there. The
 13:39:06 24 other study I'd point to would be Tammelin's study of
 13:39:10 25 CABGs and Staph epi where he tried to do

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13:39:14 1 fingerprinting to say if I look at the air, if I look
 13:39:17 2 at the surgeons and if I culture the patient's legs
 13:39:21 3 where the graft is for the CABG, or if I culture the
 13:39:25 4 sternum, he could find the only match that -- with any
 13:39:30 5 high numbers in the sternum for Staph epi. These are
 13:39:34 6 heart studies, but it comes back to what I've said
 13:39:37 7 earlier. If you have an organism, a marker organism
 13:39:40 8 and you can follow it, so he's able to do a
 13:39:42 9 fingerprint on those Staph epi on the sternum. I
 13:39:46 10 think I --

13:39:47 11 Q. Well I'm asking --

13:39:47 12 I mean, my understanding is, and it's a very
 13:39:49 13 limited understanding, that bacteria either need to be
 13:39:52 14 transferred by direct contact or they can be
 13:39:55 15 aerosolized. They don't have legs; correct? They
 13:39:58 16 don't move.

13:39:59 17 A. They can move, on the surface.

13:40:00 18 Q. How do they move?

13:40:02 19 A. I don't know how they move, but, you know,
 13:40:04 20 they're -- if there -- if there is an incision made
 13:40:08 21 across a group of bacteria, then why would you not
 13:40:12 22 think that they're actually going to fall into the
 13:40:16 23 wound? That's a hypothesis that I have --

13:40:18 24 Q. Is there any evidence --

13:40:19 25 A. -- but nobody -- nobody knows exactly how

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13:40:21 1 they get from the flora to the wound. And I've said
 13:40:25 2 that in my report.

13:40:28 3 Q. Okay. So you have no opinion of how the
 13:40:31 4 bacteria get from the flora, patient's flora into the
 13:40:36 5 wound; correct?

13:40:39 6 A. Not in detail. I just know that they're
 13:40:41 7 already present at the time of the incision.

13:40:44 8 Q. Now do they jump from the patient's skin
 13:40:46 9 right into the -- into the joint, or would they go
 13:40:49 10 through the fascia and the mu -- and the muscle?

13:40:51 11 A. I don't know.

13:40:52 12 Q. Okay.

13:40:52 13 MR. COREY GORDON: Wait for him to --

13:40:54 14 THE WITNESS: I'm sorry.

13:40:54 15 MR. COREY GORDON: You gotta wait for him
 13:40:55 16 to finish the question.

13:40:56 17 THE WITNESS: Yeah. Apologize.

13:40:57 18 Q. Okay. So --

13:40:58 19 And you're aware that in many total hip and
 13:41:00 20 total knee arthroplasties, if not all, that patients
 13:41:02 21 are given a prophylactic dose of antibiotics.

13:41:12 22 A. Patients are given antibiotics, yes,
 13:41:15 23 preoperatively, perioperatively.

13:41:17 24 Q. Perioperatively. Actually before even
 13:41:19 25 incision.

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13:41:19 1 A. Yes.

13:41:20 2 Q. Okay. And in fact that has shown to reduce
 13:41:26 3 the incident of superficial wound infection for total
 13:41:31 4 hip and total knee arthroplasty; correct?

13:41:33 5 A. More than that. I mean, if I go back to
 13:41:35 6 Lidwell's study, he -- when he looked at the patients
 13:41:39 7 who had perioperative antibiotics, their deep-joint
 13:41:47 8 infection rate was four times greater in the group
 13:41:49 9 that didn't have antibiotics.

13:41:50 10 MR. COREY GORDON: You said "greater."

13:41:53 11 THE WITNESS: I'm sorry.

13:41:54 12 A. The people who didn't get perioperative
 13:41:57 13 antibiotics had a four times risk of the prosthetic
 13:42:03 14 joint infections compared to the ones who did.

13:42:05 15 Q. So we agree that perioperative antibiotics
 13:42:07 16 decreases the risk of periprosthetic joint infections?

13:42:09 17 A. Yes.

13:42:10 18 Q. Okay. You do agree with me that the
 13:43:23 19 bacteria has to get to the -- to the joint area to
 13:43:26 20 cause a periprosthetic joint infection
 13:43:29 21 perioperatively; correct?

13:43:30 22 A. Bacteria are necessary, not sufficient, yes.

13:43:33 23 Q. Okay. And when we say "get to the joint
 13:43:37 24 area," we're getting to the prosthesis during the
 13:43:41 25 total hip or total knee arthroplasty; correct?

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14:15:53 1 that -- that that study would not be scientifically
 14:15:57 2 valid today; correct?
 14:16:00 3 MR. COREY GORDON: Object to the form of
 14:16:00 4 the question and misstates the testimony.
 14:16:01 5 A. I actually read the whole response that she
 14:16:04 6 said, and then later on she was questioned. Did you
 14:16:09 7 -- And she said, did I really say that? Because I --
 14:16:13 8 You know, then she went on to say, I would need a
 14:16:16 9 bigger study because, you know, so many things have
 14:16:20 10 been done and everybody has to have a warmer. And the
 14:16:22 11 second thing, she said it may not be two thirds, she
 14:16:26 12 said 30 percent reduction is probably what I would see
 14:16:29 13 today.

14:16:31 14 Q. In colo --

14:16:32 15 A. Still humongous, she said.

14:16:34 16 Q. Do you think there's a difference between
 14:16:36 17 colorectal surgery and -- and a knee surgery?

14:16:38 18 MR. COREY GORDON: Object to the form of
 14:16:40 19 the question.

14:16:40 20 A. Of course there's a difference, I mean. But
 14:16:42 21 if you said does the skin react differently, you know,
 14:16:47 22 or the microbiome, the body's physiology whether a
 14:16:51 23 knife is on the abdomen or on a hip, I'm not sure.

14:16:55 24 Q. You think, sitting here today, that the
 14:16:57 25 primary source of the bacteria in a colorectal surgery

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14:17:55 1 A. Yes.
 14:17:55 2 Q. Okay. With respect to the Leeming --
 14:19:18 3 Leeming article that we just referenced, are you aware
 14:19:21 4 that the biopsies of the skin were taken on the back?
 14:19:24 5 A. No. I did -- you know, we -- this was a
 14:19:27 6 very quick look and wanted to see the punch line.
 14:19:30 7 Q. So you would agree with me that just assume
 14:19:31 8 that I'm reading this correctly, that the samples were
 14:19:34 9 taken on the back skin -- okay, the back -- the back
 14:19:37 10 skin, that that doesn't indicate that there's data
 14:19:40 11 that these types of bacteria are on the glands in the
 14:19:45 12 knee or hip; correct?

14:19:47 13 A. If that's true, then that's what the study
 14:19:50 14 would say.

14:19:50 15 Q. Okay.

14:19:51 16 A. I'm not questioning your...

14:19:54 17 Q. All right.

14:19:54 18 (Mr. Ben Gordon departed the proceedings.)

14:20:45 19 Q. And as an expert that's doing a literature
 14:20:48 20 review, the best evidence to rely upon are going to be
 14:20:54 21 peer-reviewed studies; correct?

14:20:56 22 MR. COREY GORDON: Object to the form of
 14:20:58 23 the question.

14:20:58 24 A. In general I think that's better.

14:21:01 25 Q. Because there are many studies that are

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14:17:02 1 which has a high incidence of infection, is the skin
 14:17:05 2 and not the colon?
 14:17:07 3 A. Well they had both, actually. When you look
 14:17:09 4 at the organisms, if you found a Staph aureus, which
 14:17:13 5 they certainly found, that was part of the finding.
 14:17:16 6 That's not an organism commonly in the GI tract. Can
 14:17:20 7 be. They also found enterococcus, they had one
 14:17:24 8 candida. So they certainly had a mixture of what was
 14:17:26 9 in the GI tract and what was on the skin. So if
 14:17:29 10 that's what you're asking, yes.

14:17:30 11 Q. I mean you agree with me that colorectal
 14:17:32 12 surgery has a high incidence of infection because it's
 14:17:34 13 a -- whether it's a clean contaminated or a
 14:17:37 14 contaminated surgery; correct?

14:17:38 15 A. That is correct.

14:17:39 16 Q. It's a much different surgery than a total
 14:17:41 17 hip and total knee, --

14:17:42 18 A. It's --

14:17:42 19 Q. -- which is a clean surgery.

14:17:45 20 A. It's different from those operations, yeah.

14:17:47 21 But what I'm saying --

14:17:49 22 Q. Well that's all I -- that's all I need.

14:17:50 23 A. Okay.

14:17:51 24 Q. So, I mean, we agree that total hip and
 14:17:53 25 total knee are considered clean surgeries.

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14:21:03 1 performed, even internally at 3M, that they might just
 14:21:07 2 be trying to determine which is the best way to study
 14:21:12 3 and might try different types of techniques; correct?

14:21:17 4 A. Yeah, I don't know what 3M's doing in trying
 14:21:17 5 to come up with techniques.

14:21:18 6 Q. But, for example, let's talk about, you
 14:21:26 7 know, culturing glands, okay? Let's see what grows in
 14:21:29 8 glands. There might be some techniques that work to
 14:21:31 9 determine whether or not there's bacteria in the
 14:21:33 10 glands, and there might be other techniques that might
 14:21:35 11 not work; correct?

14:21:37 12 MR. COREY GORDON: Object to the form of
 14:21:37 13 the question.

14:21:37 14 A. Hypothetically, yes.

14:21:39 15 Q. And as a scientist you're trying to
 14:21:41 16 determine, you know, if you want to collect data,
 14:21:44 17 which is the best way to collect data; correct?

14:21:49 18 A. I'd like to know the best way always.

14:21:51 19 Q. Okay. And sometimes you might try a method
 14:21:54 20 that might not work; correct?

14:21:56 21 A. Happens all the time.

14:21:57 22 Q. Okay. Happens all the time.

14:21:59 23 And when you try a method that doesn't work,
 14:22:01 24 do you publish that?

14:22:02 25 A. You might.

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14:31:53 1 A. -- you're saying?
 14:31:53 2 Q. -- about -- not the studies, I'm talking
 14:31:56 3 about what Dr. Wenzel's opinion is.
 14:31:59 4 A. Yeah.
 14:31:59 5 Q. Okay. Based on what whatever you've read.
 14:32:02 6 A. Yeah.
 14:32:02 7 Q. Okay. I don't want to know the studies, I
 14:32:05 8 know what the studies are. Because I know some of
 14:32:06 9 them you agree with and some of them you don't agree
 14:32:09 10 with; correct?
 14:32:11 11 A. That's right.
 14:32:11 12 Q. Okay. So I want to know what your opinion
 14:32:13 13 is, not what the studies' opinion is.
 14:32:13 14 A. Umm-hmm.
 14:32:15 15 Q. Fair enough?
 14:32:15 16 A. Yeah.
 14:32:16 17 Q. Okay. Does Dr. Wenzel agree, you, that the
 14:32:20 18 number of bacteria arriving in the surgical wound
 14:32:23 19 correlate directly with the probability of a
 14:32:26 20 surgical-site infection?
 14:32:28 21 A. I can't answer that for all studies, there
 14:32:31 22 is a disparity of that. But my opinion is that it's
 14:32:36 23 not been linked to surgical-site infections.
 14:32:39 24 Particles and bacteria have been linked, but not
 14:32:42 25 necessarily that link of CFUs and infection.

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14:33:46 1 surgical-site infections?
 14:33:47 2 A. I haven't seen that, no.
 14:33:48 3 Q. So you disagree --
 14:33:48 4 A. I don't know.
 14:33:49 5 Q. -- with that.
 14:33:50 6 A. I don't know.
 14:33:51 7 Q. You don't know. Okay.
 14:33:52 8 You don't have an opinion whether or not OR
 14:34:34 9 traffic increases the risk of surgical-site infection;
 14:34:39 10 is that correct?
 14:34:40 11 A. I think in general OR traffic's been linked
 14:34:43 12 to increasing particles. It's hard to know whether
 14:34:45 13 those increased surgical-site infections, but I think
 14:34:50 14 there are some studies. I'm having trouble
 14:34:52 15 remembering which ones show that it might, but it
 14:34:54 16 might be important. But then there is some
 14:34:57 17 contradictory evidence and I was just, in my report,
 14:35:01 18 trying to show that.
 14:35:02 19 Q. Well just so I understand, at trial you're
 14:35:05 20 not going to have an opinion that OR traffic caused a
 14:35:12 21 surgical-site infection.
 14:35:15 22 MR. COREY GORDON: Object to the form of
 14:35:17 23 the question.
 14:35:20 24 A. At this point I don't know. Yeah.
 14:35:23 25 Q. Well I --

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14:32:46 1 Q. I wasn't talking about particles.
 14:32:48 2 Listen to the question.
 14:32:49 3 A. Yeah. Go ahead.
 14:32:50 4 Q. Do the numbers of bacteria arriving in the
 14:32:54 5 surgical wound correlate directly with the probability
 14:32:57 6 of surgical-site infection; "yes" or "no"?
 14:33:01 7 A. Well Birgand would say no, he can't find a
 14:33:07 8 correlation with contamination of the wound.
 14:33:09 9 Q. What about Dr. Wenzel?
 14:33:11 10 A. I don't know.
 14:33:12 11 Q. Okay. You don't know.
 14:33:12 12 A. I mean, I'm not sure.
 14:33:13 13 Q. Okay. What about this question: Do the
 14:33:16 14 number of bacteria in the operating room environment
 14:33:19 15 correlate directly with the probability of SSI, "yes"
 14:33:24 16 or "no," according to Dr. Wenzel?
 14:33:25 17 MR. COREY GORDON: Object to the form of
 14:33:27 18 the question, incomplete hypothetical. It's not a
 14:33:29 19 yes-or-no question.
 14:33:33 20 Q. "Yes" or "no"?
 14:33:34 21 A. So the total number of bacteria in the air?
 14:33:36 22 Q. I'll read it again.
 14:33:37 23 A. Yeah.
 14:33:38 24 Q. Do numbers of bacteria in the operating room
 14:33:42 25 environment correlate directly with the probability of

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14:35:24 1 A. Yeah.
 14:35:24 2 Q. -- here's the thing, doctor, and I'm not
 14:35:26 3 trying to be difficult. I know the studies as well as
 14:35:29 4 you do.
 14:35:29 5 A. Yeah.
 14:35:30 6 Q. Okay. And -- Not as well, but I know them
 14:35:33 7 fairly well. You probably know them better.
 14:35:35 8 I'm not -- I could read the studies as well.
 14:35:37 9 I want to know based on your reading of the studies
 14:35:39 10 what Dr. Wenzel's opinion is, okay? Not what the
 14:35:42 11 literature says, but what your opinion is. You could
 14:35:44 12 support it with the literature, but at this point in
 14:35:46 13 time I've read your report, I know what literature
 14:35:49 14 you're relying upon.
 14:35:50 15 I just want to know, okay, do you think that
 14:35:56 16 OR traffic increases the risk of surgical-site
 14:36:03 17 infections in a total hip or total knee arthroplasty?
 14:36:06 18 A. It might, yes.
 14:36:07 19 Q. It might --
 14:36:07 20 A. Yeah.
 14:36:07 21 Q. -- or it does?
 14:36:08 22 A. I don't know. It might.
 14:36:09 23 Q. Can you say that within a reasonable degree
 14:36:11 24 --
 14:36:11 25 A. Yeah.

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15:18:54 1 that thing comes down.
 15:18:56 2 (Laughter.)
 15:18:56 3 BY MR. ASSAAD:
 15:19:30 4 Q. Are you aware of articles that discuss that
 15:19:32 5 the incidence of periprosthetic joint infections are
 15:19:34 6 going to increase over the next twenty -- up to 2030?
 15:19:39 7 MR. COREY GORDON: Object to the form of
 15:19:40 8 the question.
 15:19:40 9 A. Yeah, related to the increased number of
 15:19:41 10 people who are undergoing the procedures, so.
 15:19:44 11 Q. When we talk about incidence, I'm talking
 15:19:46 12 about the percentage.
 15:19:48 13 A. Percent?
 15:19:48 14 Q. Do you recall an article that indicated by
 15:19:51 15 2030 the -- the incident of periprosthetic joint
 15:19:57 16 infections will be as high as 6 percent?
 15:19:59 17 A. I'm not aware of that at all.
 15:20:42 18 Q. You would agree with me that being diabetic
 15:20:47 19 is not a cause of the infection.
 15:20:51 20 MR. COREY GORDON: Object to the form of
 15:20:52 21 the question.
 15:20:53 22 A. I don't agree with that at all. My view of
 15:20:56 23 infections, surgical-site infections is that they're
 15:21:01 24 multifactorial and the comorbidities, for example, are
 15:21:05 25 a -- one factor that can certainly change the baseline

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15:22:30 1 A. Increases for sure the number of people who
 15:22:33 2 are nasal carriers of Staph aureus, and by definition
 15:22:39 3 those people are more susceptible to infections.
 15:22:41 4 There may be other things as well, but that's -- the
 15:22:43 5 study of the microbiome is pretty young still, but
 15:22:46 6 it's a remarkable thing that we have several studies
 15:22:49 7 showing that.
 15:22:49 8 Q. But you still -- you agree with me that the
 15:22:51 9 fact that --
 15:22:54 10 You still need the bacteria to cause the
 15:22:56 11 infection; correct?
 15:22:58 12 A. Bacteria are necessary, not sufficient.
 15:23:02 13 Q. You can't have an infection without the
 15:23:03 14 bacteria; correct?
 15:23:04 15 A. That's true.
 15:23:05 16 Q. Okay. And you are just saying that a person
 15:23:09 17 that is obese might be more likely to be a Staph
 15:23:15 18 aureus carrier or an MRS carrier.
 15:23:18 19 A. That's for sure, and I know that person's at
 15:23:20 20 higher risk when you look at the epidemiologic
 15:23:24 21 studies, which I've cited, for getting a surgical-site
 15:23:27 22 infection.
 15:23:28 23 Q. I understand that.
 15:23:28 24 But my point is that makes them more
 15:23:33 25 susceptible, not that -- I mean --

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15:21:10 1 rate if you're not having those comorbidities. So I
 15:21:14 2 look at all the risk factors as, if you will, risk
 15:21:20 3 factors and causes. So if you said to me, I have
 15:21:23 4 twins, one of them is -- you know, exactly the same
 15:21:28 5 genetics, same surgeon, same operation, everything the
 15:21:31 6 same except one's an obese diabetic, and that patient
 15:21:36 7 gets an infection post-op, of course the diabetes and
 15:21:41 8 the obesity contributed to that person's increased
 15:21:44 9 risk of infection.

15:21:47 10 Q. Doesn't that go to susceptibility?

15:21:54 11 A. What I know it goes to is -- at least in
 15:21:58 12 terms of diabetes and obesity, is a change in the
 15:22:02 13 microbiome. Is that what you mean by
 15:22:05 14 "susceptibility"?

15:22:05 15 Q. So you think in that -- And -- Okay.

15:22:10 16 I want to make sure I understand you. You
 15:22:12 17 think obesity and diabetes has an effect on the human
 15:22:15 18 microbiome.

15:22:15 19 A. It does, and I've cite -- several studies
 15:22:18 20 that I've cited.

15:22:19 21 Q. Okay. And therefore what type of effect;
 15:22:25 22 does it increase the -- the number of bacteria on the
 15:22:29 23 skin?

15:22:29 24 MR. COREY GORDON: Object to the form of
 15:22:30 25 the question.

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15:23:36 1 The only thing I know that causes a
 15:23:38 2 periprosthetic joint infection is a bacteria; correct?
 15:23:40 3 A. That's always there.
 15:23:41 4 Q. Okay. The fact that I am -- someone's obese
 15:23:44 5 is not going to spontaneously have an infection
 15:23:47 6 without a bacteria; correct?

15:23:49 7 A. Correct.

15:23:49 8 Q. Okay. It is the bacteria that causes the
 15:23:53 9 infection, and it is the host that may be susceptible
 15:23:58 10 more or less than the average human and may allow the
 15:24:06 11 infection to progress.

15:24:07 12 MR. COREY GORDON: Object to the form of
 15:24:08 13 the question.

15:24:08 14 A. You and I are going to disagree. I mean, I
 15:24:11 15 think that risk factors are, by definition, causal,
 15:24:15 16 and -- that's why I tried to give you the twins, one
 15:24:20 17 was a diabetic obese, and without that that person,
 15:24:24 18 the twin, didn't get an infection. You're asking a
 15:24:27 19 little bit about mechanisms, which aren't fully worked
 15:24:30 20 out.

15:24:31 21 Q. Well the one that's diabetic obese compared
 15:24:33 22 to the regular twin, okay, the diabetic obese still
 15:24:51 23 would have to have a bacteria that would get into the
 15:24:53 24 joint area during the operation to cause an infection;
 15:24:55 25 correct?

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15:24:56 1 A. Yeah. I mean --
 15:24:57 2 Q. And the same thing with a person that's
 15:24:59 3 skinny; correct?
 15:25:00 4 A. That's correct.
 15:25:00 5 Q. Unless, let's assume it's the same amount of
 15:25:03 6 bacteria, say it's a thousand CFUs or 10,000 CFUs,
 15:25:08 7 okay? My understanding, and see if we could agree,
 15:25:10 8 that the diabetic obese patient is more prone to --
 15:25:14 9 for the -- for the CFUs to -- to -- like -- more
 15:25:20 10 likely to become infected because that person is obese
 15:25:23 11 and a diabetic as compared to the healthy person.

15:25:28 12 MR. COREY GORDON: Object to the form.

15:25:30 13 Q. Do you understand what I'm saying?

15:25:31 14 A. Not really, no.

15:25:36 15 Q. Okay. You still need the bacteria to land
 15:25:37 16 on the -- the diabetic and obese person; correct?

15:25:42 17 A. Correct.

15:25:42 18 Q. If no bacteria lands on the joint during the
 15:25:44 19 operation of a diabetic obese patient, that patient,
 15:25:49 20 more likely than not, is not going to have an
 15:25:50 21 infection; correct?

15:25:51 22 A. Yes.

15:25:51 23 MR. COREY GORDON: Object to the form of
 15:25:52 24 the question.

15:25:53 25 Q. Correct?

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15:27:25 1 A. Sure.
 15:27:45 2 Q. On the third paragraph from the bottom where
 15:27:47 3 it says: "Thus, substantial rises in comorbidities"?
 15:27:51 4 Do you see that?
 15:27:52 5 A. I do.
 15:27:53 6 Q. Okay. The last sentence you say, "...it has
 15:27:56 7 been reported that surgical site infection rates have
 15:27:58 8 fallen over time during the use of Bair Hugger."
 15:28:00 9 Correct? I read that correctly?

15:28:01 10 A. Yeah.

15:28:02 11 Q. You're talking about superficial wound
 15:28:04 12 infections; correct?

15:28:05 13 A. They're probably mixed.

15:28:07 14 Q. Well we just said there was no study on
 15:28:09 15 periprosthetic joint infections.

15:28:10 16 MR. COREY GORDON: Object to the form of
 15:28:12 17 the question.

15:28:14 18 A. Yeah. I don't know that they didn't count
 15:28:21 19 -- I mean CDC has rates for hips and --

15:28:21 20 (Interruption by the reporter.)

15:28:25 21 A. -- has rates of infection for total hip
 15:28:28 22 placement, total knee replacement from their national
 15:28:31 23 cohort. And what I cited in the report was if you
 15:28:35 24 look at the trends over time, and they corrected for
 15:28:39 25 some of the comorbidities the best they could, they've

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15:25:54 1 A. Yes.
 15:25:54 2 Q. And in fact it would be impossible, without
 15:25:56 3 bacteria, for that person to have an infection;
 15:25:58 4 correct?
 15:25:58 5 A. Need the bacteria.
 15:25:59 6 Q. Huh?
 15:26:00 7 A. Need the bacteria.
 15:26:01 8 Q. You need the bacteria.
 15:26:02 9 Whether or not you are obese, diabetic,
 15:26:05 10 immunosuppressed and whatever type of comorbidity
 15:26:10 11 there is, you need the bacteria.

15:26:11 12 A. Yes.

15:26:12 13 Q. Okay. You could be immunosuppressed and go
 15:26:29 14 through a total hip and total knee arthroplasty, and
 15:26:32 15 as long as no bacteria lands in the joint area you're
 15:26:34 16 not going to get an infection; correct?

15:26:36 17 A. I think that's true.

15:26:38 18 Q. Same thing with a diabetic; correct?
 15:26:40 19 A. Yes.

15:26:41 20 Q. Same thing with an obese person; correct?
 15:26:42 21 A. Yes.

15:26:43 22 Q. Okay. You need the bacteria to get to the
 15:26:45 23 joint; correct?

15:26:46 24 A. You do.

15:26:47 25 Q. Okay. Go to page 13.

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15:28:42 1 actually shown a decline, something like 27 to 43
 15:28:45 2 percent depending on one's hips, one's knees.
 15:28:49 3 Q. Are you aware of the -- the Parvizi studies
 15:28:53 4 regarding the economic burden of periprosthetic joint
 15:28:55 5 infections?

15:28:56 6 A. I think so. I don't remember exactly what
 15:28:57 7 number he came up with, but.

15:29:01 8 Q. Well you know that Dr. Parvizi has looked at
 15:29:04 9 this issue; correct?

15:29:05 10 A. Yeah.

15:29:05 11 MR. COREY GORDON: Object to the form of
 15:29:07 12 the question.

15:29:07 13 MR. ASSAAD: Basis?

15:29:08 14 MR. COREY GORDON: What is "this issue"?

15:29:10 15 You've just -- You've had a whole line of questions
 15:29:12 16 where you're asking him about the trends, and then
 15:29:13 17 you switch gears and then you say he's -- Parvizi has
 15:29:18 18 looked at "this issue."

15:29:21 19 BY MR. ASSAAD:

15:29:25 20 Q. Doctor, you knew what I was talking about
 15:29:27 21 when I said "this issue"; correct?

15:29:29 22 A. I did.

15:29:29 23 MR. COREY GORDON: Object to the form of
 15:29:30 24 the question, lack of foundation.

15:29:31 25 Q. We were talking about infection rates;
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15:47:59 1 And it's underlined by Dr. Oguz; is that
 15:48:02 2 correct?
 15:48:04 3 A. Underlined by me?
 15:48:05 4 Q. Yes.
 15:48:05 5 A. Yeah.
 15:48:06 6 Q. Okay. Can I have that back, please?
 15:48:07 7 A. Sure. (Handing.)
 15:48:08 8 Q. Now what you didn't underline here was the
 15:48:13 9 statement by the authors that, this study may
 15:48:16 10 obviously not be generalized for an overall safety
 15:48:19 11 statement on forced-air warming, and is primarily
 15:48:23 12 applicable in the particular surgical setup.
 15:48:26 13 You didn't underline that; did you?
 15:48:27 14 A. No.
 15:48:28 15 Q. Okay. That's a pretty important statement
 15:48:30 16 by the authors; isn't it?
 15:48:31 17 MR. COREY GORDON: Object to the form of
 15:48:32 18 the question, lack of foundation.
 15:48:34 19 A. Where am I looking here?
 15:48:38 20 Q. (Indicating.) Right after you stopped
 15:48:40 21 underlining up here.
 15:48:41 22 A. Right there? (Witness reviewing exhibit.)
 15:48:49 23 So you're saying "only the maximum number of health
 15:48:52 24 professionals" --
 15:48:53 25 Q. No. Over here, sir. Right after this

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15:50:16 1 A. Yeah. Yeah.
 15:50:16 2 Q. And that's what you were talking about;
 15:50:17 3 correct?
 15:50:18 4 A. I am.
 15:50:18 5 Q. And it looked at the presence of forced-air
 15:50:21 6 warming; right? On plate 1 it was 1.13; on plate 2 it
 15:50:26 7 was 1.07, and you even highlighted it in blue; plate 3
 15:50:30 8 is 1.30; plate 4 is 1.55; and plate 5 and 6 are 1.0.
 15:50:36 9 Is that correct?
 15:50:37 10 A. Let me look. In the "absence of laminar
 15:50:43 11 flow," you're looking at that, or the "presence of
 15:50:44 12 forced air warming"?
 15:50:45 13 Q. "Presence of forced air warming."
 15:50:46 14 A. Yeah, that's correct.
 15:50:47 15 Q. So with the presence of forced-air warming
 15:50:49 16 there was an increase in bacterial load over the
 15:50:52 17 surgical site.
 15:50:53 18 MR. COREY GORDON: Object to the form of
 15:50:54 19 the question.
 15:50:54 20 Q. That's what those numbers mean; correct?
 15:50:57 21 For four out of the six plates.
 15:50:59 22 A. Oh, I see what you're saying. Yes.
 15:51:00 23 Q. Okay.
 15:51:01 24 A. For four out of the six, yeah.
 15:51:03 25 Q. Okay. And you are aware that the -- only

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15:48:55 1 underline here. [Indicating.]
 15:48:56 2 A. Oh, this one. Okay. (Witness reviewing
 15:49:05 3 exhibit.)
 15:49:05 4 It might not. So I think that -- I think
 15:49:11 5 good authors will try to look and give their own
 15:49:14 6 critique of potential shortcomings.
 15:49:17 7 Q. Okay. Now let's look at the table
 15:49:19 8 underneath there that looked at the multivariate
 15:49:23 9 analysis.
 15:49:25 10 Do you agree with me for four out of the six
 15:49:29 11 plates that there is a higher incident of bacteria
 15:49:34 12 when forced-air warming was used as compared to when
 15:49:37 13 forced-air warming was not used, or when the HotDog
 15:49:39 14 was used?
 15:49:42 15 A. Where is this?
 15:49:43 16 Q. Table 2.
 15:49:44 17 A. Oh, I'm sorry. It's these?
 15:49:45 18 Q. Yeah. The second line down.
 15:49:47 19 A. Okay. (Witness reviewing exhibit.) So what
 15:50:07 20 are you -- Make sure that I know what you're looking
 15:50:09 21 -- what numbers.
 15:50:10 22 Q. Let me read it out loud for you.
 15:50:11 23 A. Yeah. Go ahead.
 15:50:12 24 Q. Table 2 is the results of a multivariate
 15:50:15 25 analysis of factors; correct?

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15:51:47 1 one surgery dealt with total knee replacement.
 15:51:50 2 A. I think that's right.
 15:51:51 3 Q. Okay. Most of them were short surgeries;
 15:51:54 4 correct?
 15:51:54 5 A. Yes.
 15:51:55 6 MR. COREY GORDON: Object to the form of
 15:51:55 7 the question.
 15:52:13 8 Q. Let's move on to page --
 15:52:55 9 Go to page 34 [Exhibit 1].
 15:53:20 10 (Discussion off the stenographic record.)
 15:53:20 11 MR. ASSAAD: Let's take a break then.
 15:53:23 12 (Recess taken from 3:53 to 4:02 p.m.)
 16:02:55 13 BY MR. ASSAAD:
 16:03:03 14 Q. Ready to continue, doctor?
 16:03:04 15 A. Sure.
 16:03:07 16 Q. Now let's look at page 34.
 16:03:11 17 A. Okay.
 16:03:12 18 Q. You go over three studies that talk about
 16:03:14 19 the nasal colonization of Staph aureus?
 16:03:27 20 A. Yeah.
 16:03:28 21 Q. You agree with me that none of those studies
 16:03:30 22 looked at the incidence of periprosthetic joint
 16:03:34 23 infection; correct?
 16:03:37 24 A. Let me see where I am here. (Witness
 16:03:47 25 reviewing exhibit.) You're sure Kalmeijer? I just

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16:03:51 1 can't remember exactly.
 16:03:52 2 Do you have that paper, just remind me.
 16:04:11 3 Q. I do have Kalmeijer, I only have one copy.
 16:04:13 4 You don't have it with you?
 16:04:14 5 A. No. I don't have anything.
 16:04:16 6 Q. Okay. Well actually, let's look --
 16:04:21 7 MR. COREY GORDON: He might in the box, if
 16:04:23 8 not what's up there.
 16:04:23 9 A. Yeah, I don't know.
 16:04:25 10 Q. Let's look at Kalmeijer, which is the
 16:04:26 11 surgical site in -- you can use my copy --
 16:04:28 12 surgical-site infections in orthopedic surgeries.
 16:04:31 13 Is that the paper you're referring to?
 16:04:32 14 A. Yeah.
 16:04:33 15 Q. Okay.
 16:04:33 16 A. Is it -- If it's not joints, I just wanted
 16:04:37 17 to make sure. I thought it included --
 16:04:39 18 Q. Actually, if you look at the page that looks
 16:04:41 19 at the number of patients, --
 16:04:42 20 A. Yeah?
 16:04:44 21 Q. -- you can see that in -- when mupirocin is
 16:04:49 22 used --
 16:04:50 23 A. Mupirocin, right.
 16:04:51 24 Q. -- there were zero infections; correct?
 16:04:54 25 A. Yeah.

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16:05:44 1 any effect on periprosthetic joint infection?
 16:05:48 2 A. Well I showed you the data from Chen, and in
 16:05:53 3 the articles I even had the graph, I think, related to
 16:05:55 4 that.
 16:05:55 5 Q. I'm talking about page --
 16:05:56 6 A. They were mixed --
 16:05:57 7 Q. Okay.
 16:05:58 8 A. -- deep and superficial, but they were
 16:06:01 9 prosthetic joints.
 16:06:02 10 Q. Those were the types of surgeries; correct?
 16:06:05 11 A. Yeah. Is that what you want?
 16:06:06 12 Q. No. But the difference is whether or not it
 16:06:08 13 caused a superficial wound infection or a
 16:06:10 14 periprosthetic joint infection. And there's no data
 16:06:13 15 that having colonization of Staph in your nose has an
 16:06:20 16 effect on periprosthetic joint infection; correct?
 16:06:24 17 A. Yeah, I -- Again, Chen. Let's look at that,
 16:06:27 18 because I thought --
 16:06:29 19 Where do I have that in my notes? He has --
 16:06:32 20 Q. What page are you referring to?
 16:06:33 21 A. Well I'm trying to find it. Maybe it was
 16:06:42 22 earlier. (Witness reviewing exhibit.) Sorry I'm
 16:07:10 23 taking so long.
 16:07:16 24 Q. Why don't you look at page 65?
 16:07:19 25 A. 65?

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16:04:54 1 Q. And then when the placebo is used there was
 16:04:57 2 only one infection; correct?
 16:04:58 3 A. Yes.
 16:04:59 4 Q. That's not --
 16:05:00 5 A. Deep infection.
 16:05:01 6 Q. Yeah. And we're talking about deep
 16:05:02 7 infections; correct?
 16:05:03 8 A. Yes.
 16:05:03 9 Q. That's not statistically significant; is it?
 16:05:05 10 A. I don't think so.
 16:05:06 11 Q. Okay. So would it be fair to say that if
 16:05:10 12 you used --
 16:05:12 13 Is it mupirocin?
 16:05:13 14 A. Mupirocin, yeah.
 16:05:14 15 Q. -- mupirocin, that there is no data that
 16:05:16 16 indicates that it would statistically impact deep
 16:05:21 17 joint infections?
 16:05:21 18 A. In that study.
 16:05:22 19 Q. In that study, okay.
 16:05:24 20 And you consider this study authoritative;
 16:05:26 21 correct?
 16:05:26 22 A. Yes.
 16:05:27 23 Q. Okay. What about the other studies? Do you
 16:05:30 24 agree with me that none of them found that nasal --
 16:05:39 25 nasal colonization of Staph -- of Staphylococcus had

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16:07:20 1 Q. You talk about Chen, et al, Clinical
 16:07:22 2 Orthopedic?
 16:07:23 3 A. Yeah.
 16:07:23 4 Q. Yeah. Page 65.
 16:07:28 5 A. No, that's not right; is it?
 16:07:32 6 Q. I'm sorry. Sixty-four.
 16:07:34 7 A. Yeah, that's right. Okay. Thank you.
 16:07:38 8 So, let's see. (Witness reviewing exhibit.)
 16:07:46 9 What I remember that the study said is they mixed
 16:07:55 10 superficial and deep in their review of the literature
 16:08:00 11 because it wasn't always clear. So it might be a mix
 16:08:04 12 of some of these.
 16:08:06 13 Q. So sitting here today there is no evidence
 16:08:09 14 or data that indicates having colonization of Staph in
 16:08:14 15 your nose significantly increases the risk of
 16:08:17 16 periprosthetic joint infection; correct?
 16:08:18 17 MR. COREY GORDON: Object to the question,
 16:08:19 18 mischaracterizes his testimony.
 16:08:20 19 A. Well what I said is there's a mix of -- of
 16:08:24 20 periprosthetic joint infections and the more
 16:08:27 21 superficial ones in here, and I can't tell you, you
 16:08:30 22 know, what proportion.
 16:08:31 23 Q. Okay. So you have no opinion. You can't
 16:08:33 24 make the statement today --
 16:08:34 25 A. Oh, I make an opinion, yeah. I mean I would

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16:13:59 1 every study that looked at whether or not the Bair
 16:14:02 2 Hugger increased particles or hydrogen bubbles over
 16:14:06 3 the -- Sorry. Strike that.
 16:14:09 4 Are you aware that Bair -- 3M admits that
 16:14:13 5 every study indicates that whether you looked at
 16:14:18 6 hydrogen or particles, that both were increased when
 16:14:22 7 the Bair Hugger was turned on as compared to the Bair
 16:14:24 8 Hugger was turned off?
 16:14:25 9 MR. COREY GORDON: Object to the form of
 16:14:26 10 the question, misstates the evidence.
 16:14:27 11 A. So I'm not aware that 3M admitted that. No,
 16:14:30 12 I'm not aware of that.
 16:14:33 13 Q. If that is the case, would that cause you
 16:14:35 14 any concern that the Bair Hugger increases particles
 16:14:38 15 over the surgical site?
 16:14:40 16 A. What I know now it would cause me no concern
 16:14:43 17 because all the studies that get closer, looking at
 16:14:46 18 CFUs, can't show that.
 16:14:50 19 Q. Well are you aware of the Stocks article
 16:14:52 20 that did a correlation between CFUs greater than 10
 16:14:56 21 microns and --
 16:14:56 22 A. Yes.
 16:14:57 23 Q. -- and --
 16:14:58 24 A. I'm sorry.
 16:14:59 25 Q. -- and CFUs?

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16:15:00 1 A. Yes.
 16:15:01 2 Q. Do you agree with that study?
 16:15:02 3 A. Yes.
 16:15:03 4 Q. Okay. Page 46.
 16:16:44 5 I just want to understand your CDC NNIS
 16:16:47 6 score.
 16:16:48 7 A. Yeah.
 16:16:49 8 Q. And I guess you look -- to determine the
 16:16:52 9 risk factor for a surgical site risk, one of the
 16:16:55 10 things you can look at is an NNIS score; correct?
 16:17:00 11 A. Yes.
 16:17:00 12 Q. Okay. And when you talk about the
 16:17:01 13 surgical-site infection risk, do you know whether or
 16:17:04 14 not the CDC is referring to a superficial wound
 16:17:06 15 infection or a periprosthetic joint infection?
 16:17:08 16 A. I don't know for sure.
 16:17:11 17 Q. Well that would be --
 16:17:12 18 Since we're talking about, in this case,
 16:17:14 19 periprosthetic joint infections, that would be
 16:17:15 20 relevant; correct?
 16:17:16 21 A. Yeah.
 16:17:17 22 Q. Okay. Now if you look at the criteria --
 16:17:25 23 Well what's your understanding of the length
 16:17:27 24 of time of a -- a -- and I might have asked you
 16:17:29 25 this -- a length of time for a total hip or total

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16:17:32 1 knee?
 16:17:33 2 A. I think they're around two hours.
 16:17:35 3 Q. Okay. So you agree with me that most likely
 16:17:39 4 the last criteria you offer one point for if op time
 16:17:39 5 exceeds the seventieth percentile for that procedure,
 16:17:49 6 or greater than three hours for a joint --
 16:17:49 7 (Interruption by the reporter.)
 16:17:49 8 Q. -- if op time exceeds the 75th percentile
 16:17:53 9 for that procedure, or greater than three hours for
 16:17:55 10 the joint replacement, that we could probably
 16:17:58 11 eliminate greater than three hours as one of the
 16:18:01 12 criteria that would be -- apply to total hip and total
 16:18:04 13 knee.
 16:18:04 14 MR. COREY GORDON: Object to the form of
 16:18:04 15 the question, --
 16:18:04 16 A. These --
 16:18:05 17 MR. COREY GORDON: -- lack of foundation.
 16:18:05 18 A. These are not my criteria, these are, you
 16:18:08 19 know, CDC's, and I don't think today there would be
 16:18:10 20 that many patients who would have more than three
 16:18:13 21 hours.
 16:18:14 22 Q. Okay. And we could agree that for total hip
 16:18:16 23 and total knee it's not a contaminated or dirty
 16:18:19 24 surgery; correct?
 16:18:20 25 A. Yes. It's a clean surgery.

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16:18:22 1 Q. Okay. And the ASA score is based on the
 16:18:27 2 patient; correct?
 16:18:28 3 A. It is.
 16:18:30 4 Q. Okay. Now where it says, "if op time
 16:18:32 5 exceeds the 75th percentile for that procedure," is
 16:18:36 6 there somewhere I could look at to see what the -- the
 16:18:39 7 time for each type of procedure is?
 16:18:41 8 A. I think there is, but I -- I don't know the
 16:18:45 9 CDC reference for that, though.
 16:18:47 10 Q. Okay. Looking at the bottom, the odds ratio
 16:19:11 11 of the variables.
 16:19:12 12 A. Yeah.
 16:19:13 13 Q. Why is it if you have private insurance
 16:19:15 14 you're less likely to get a surgical-site infection?
 16:19:19 15 A. My guess is that it's a surrogate for
 16:19:23 16 healthier people who are less likely to have some of
 16:19:26 17 the other comorbidities. I don't know the answer, but
 16:19:28 18 that's my thought.
 16:20:01 19 Q. Go to page 49.
 16:20:04 20 A. Okay.
 16:20:05 21 Q. You write: "Of interest, there were no
 16:20:08 22 prosthetic joint infections...among diabetics who were
 16:20:12 23 not obese..."
 16:20:14 24 Did I read that correctly?
 16:20:16 25 A. You did.

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17:12:52 1 McGovern, and I would go through the McGovern study as
 17:12:58 2 critically as I did regardless of what assumption.
 17:13:03 3 Q. Well you agree with me that -- Strike that.
 17:13:09 4 You're aware of the Legg studies; correct?
 17:13:13 5 A. Yeah.
 17:13:14 6 Q. The particle and the neutrally buoyant
 17:13:17 7 helium bubbles; correct?
 17:13:18 8 A. Yeah, yeah.
 17:13:19 9 Q. And that shows that when the Bair Hugger is
 17:13:21 10 turned on particles and helium bubbles increase over
 17:13:23 11 the surgical site; correct?
 17:13:26 12 A. Yeah.
 17:13:26 13 Q. Okay. And you're aware of the McGovern
 17:13:29 14 study also did a neutrally buoyant bubble test;
 17:13:32 15 correct?
 17:13:32 16 A. Yes, I think that's right.
 17:13:33 17 Q. Okay. And you're aware of the Sessler
 17:13:36 18 study, and if you looked at the raw data it would show
 17:13:37 19 an increase in particles.
 17:13:39 20 MR. COREY GORDON: Object to the form of
 17:13:41 21 the question, mischaracterizes the evidence.
 17:13:44 22 A. So bubbles and particles --
 17:13:44 23 (Interruption by the reporter.)
 17:13:44 24 Q. Okay. Bubbles and particles?
 17:13:44 25 A. Bubbles and particles are surrogate markers
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17:15:07 1 Q. Still the same assumption that
 17:15:09 2 periprosthetic infections are caused by airborne
 17:15:11 3 contamination.
 17:15:12 4 A. Yeah.
 17:15:12 5 Q. Okay. If the Bair Hugger increases the
 17:15:15 6 bacterial load over the surgical site, would that
 17:15:20 7 affect your opinion of whether or not the Bair Hugger
 17:15:22 8 increases periprosthetic joint infections?
 17:15:25 9 A. Only if I could link the CFUs to infections
 17:15:30 10 in a straightforward way.
 17:15:33 11 Q. Similar to what Darouiche did but a much
 17:15:34 12 bigger study.
 17:15:35 13 A. Much bigger.
 17:15:36 14 Q. Okay. So if you could link CFUs to
 17:15:41 15 infections and the Bair Hugger increased the CFUs over
 17:15:44 16 the surgical site, that would affect your opinions of
 17:15:47 17 whether or not the Bair Hugger increased the risk of
 17:15:49 18 periprosthetic joint infections.
 17:15:51 19 A. Well in this hypothetical I'd want to know
 17:15:52 20 whether the -- whatever the assumptions were,
 17:15:56 21 including a hundred percent of infections from the
 17:15:58 22 air, does the Bair Hugger actually increase
 17:16:01 23 infections.
 17:16:01 24 Q. Well assume --
 17:16:01 25 A. That's the key question, not bubbles or
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17:13:50 1 for the real infection, and there were times when the
 17:13:53 2 Bair Hugger was on where the particles went up, the
 17:13:56 3 heat went up, the bubbles went up, yes.
 17:13:59 4 Q. Okay. So assuming that airborne
 17:14:05 5 contamination is -- Strike that.
 17:14:05 6 Assuming that with all these studies
 17:14:08 7 regarding increased particles, increased bubbles,
 17:14:11 8 okay, take into consideration Stocks' particle study
 17:14:15 9 and Darouiche's CFU study and periprosthetic joint
 17:14:20 10 infections, and assume that periprosthetic joint
 17:14:27 11 infections are caused by airborne contamination.
 17:14:30 12 Would that affect your opinions in this case of
 17:14:33 13 whether or not the Bair Hugger increases
 17:14:34 14 periprosthetic joint infections?
 17:14:35 15 MR. COREY GORDON: Object to the form of
 17:14:36 16 the question, incomplete hypothetical, assumes facts
 17:14:38 17 not in evidence.
 17:14:39 18 A. It's very hypothetical, and as I've told
 17:14:43 19 you, probably not because I would look at the McGovern
 17:14:45 20 study as the key clinical study that you're pointing
 17:14:49 21 to for the efficacy, or for the -- saying what you did
 17:14:54 22 about the Bair Hugger.
 17:14:56 23 Q. So if the -- if -- if the Bair Hugger...
 17:15:01 24 Let's make it even simpler.
 17:15:03 25 A. Yeah.
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17:16:05 1 particles.
 17:16:06 2 Q. So are you dismissing Darouiche's article?
 17:16:08 3 A. No.
 17:16:08 4 Q. Okay.
 17:16:09 5 A. I'd say that he said there is no causal
 17:16:12 6 relationship that he can identify here. You need a
 17:16:15 7 much bigger study.
 17:16:17 8 Q. That's --
 17:16:19 9 You think he said there was no causal
 17:16:19 10 relationship?
 17:16:20 11 A. I thought he -- he said that this isn't
 17:16:23 12 definite cause-and-effect. If I'm wrong, let me see
 17:16:26 13 it.
 17:16:35 14 Q. But just so I understand, my hypothetical is
 17:16:39 15 inaccurate because it's your opinion that 90 percent
 17:16:44 16 of these periprosthetic joint infections are caused by
 17:16:48 17 the patient's flora.
 17:16:49 18 A. Could be.
 17:16:49 19 MR. COREY GORDON: Object to the form of
 17:16:52 20 the question, mischaracterizes his testimony.
 17:16:54 21 A. I mean I -- I think we disagree. You know,
 17:16:57 22 I think that if you ask me where the origin of the
 17:16:59 23 infections are, I think it's the microbiome in a high
 17:17:05 24 proportion of patients. It could be as high as 90.
 17:17:08 25 Q. Okay. Could it be as low as 10 percent?
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17:27:50 1 orthopedic surgeries.

17:27:52 2 A. I haven't seen that. But what it show -- if

17:27:55 3 you're talking about particles or stuff like that?

17:27:58 4 Q. I'm talking about efficacy of warming

17:28:00 5 patients.

17:28:00 6 A. No. There -- I don't think there are any

17:28:02 7 data.

17:28:26 8 Q. Now is it my understanding that you would

17:28:29 9 need a clinical study to -- Strike that.

17:28:36 10 If a device contaminates the sterile field,

17:28:43 11 you would need a clinical study to show that it caused

17:28:45 12 harm?

17:28:46 13 MR. COREY GORDON: Object to the form of

17:28:48 14 the question, incomplete hypothetical.

17:28:52 15 A. I would say that would be a signal that

17:28:56 16 would lead to a study that we would see whether or not

17:29:00 17 that signal with, let's say, particles equate to

17:29:05 18 infection, and that's what I would want to have.

17:29:30 19 Q. All right. You're a member of the

17:29:41 20 International Society For Infectious Disease; correct?

17:29:43 21 A. That's true.

17:29:44 22 Q. Are you still a member?

17:29:45 23 A. Yeah. You're a kind of a member forever.

17:29:47 24 Q. Okay.

17:29:47 25 (Wenzel Exhibit 13 marked for
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17:29:47 1 identification.)
17:29:47 2 BY MR. ASSAAD:
17:30:01 3 Q. Do you recognize this document?
17:30:03 4 A. I do.
17:30:04 5 Q. It's titled, "A Guide to Infection Control
17:30:06 6 in the Hospital, Fourth Edition"; correct?
17:30:09 7 A. Yes.
17:30:09 8 Q. And you're the editor; correct?
17:30:11 9 A. Yes.
17:30:11 10 Q. And we discussed this doc -- we discussed
17:30:13 11 this book before; correct?
17:30:14 12 A. We did.
17:30:15 13 Q. Okay. And you had --
17:30:19 14 And you believe this is authoritative;
17:30:20 15 correct?
17:30:21 16 A. Yeah, with the context I gave you what we're
17:30:24 17 trying to do in poor countries where the resources are
17:30:29 18 just limited, we tried to come up with some key points
17:30:32 19 for healthcare workers.
17:30:34 20 Q. Are you saying this only applies to poor
17:30:35 21 countries and not to the United States?
17:30:37 22 A. No, but that was the major -- that was the
17:30:38 23 major thrust.
17:30:40 24 Q. But I would hope that you would treat, like,
17:30:43 25 Third World countries the same as you would First

1 **Q.** "Airborne bacteria originating from the
17:31:32 2 patient or the surgical team suffice to create SSI in
17:31:38 3 these types of procedures, particularly when implants
17:31:41 4 are being placed (example, total hip prostheses)."
17:31:44 5 Did I read that correctly?
17:31:46 6 **A.** You did.
17:31:46 7 **Q.** Okay. Those are the surgeries that are at
17:31:48 8 issue in this case; correct?
17:31:49 9 **A.** Yes.
17:31:49 10 **Q.** Okay. Airborne contamination well well
17:31:53 11 affect other clean surgical procedures with long
17:31:55 12 exposure times and large surface areas, period.
17:31:58 13 Correct?
17:31:58 14 **A.** Yes.
17:31:59 15 **Q.** "The main source of airborne bacteria in the
17:32:01 16 OR originate primarily from the skin of individuals in
17:32:04 17 the room," period.
17:32:05 18 Did I read that correctly?
17:32:06 19 **A.** You did.
17:32:13 20 **Q.** "The number of persons present in the OR as
17:32:16 21 well as their level of activity, the type of surgery,
17:32:19 22 the quality of air provided, the rate of air exchange,
17:32:22 23 the quality of staff clothing, the quality of cleaning
17:32:26 24 process and the level of compliance with infection
17:32:27 25 control practices all influence airborne

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17:32:31 1 contamination," period.
 17:32:32 2 Did I read that correctly?
 17:32:33 3 A. You did.
 17:32:34 4 Q. And this is something that you agreed with
 17:32:35 5 at the time that it was published; correct?
 17:32:37 6 A. Agreed that, yes.
 17:32:39 7 Q. Okay. "Although these may seem trivial
 17:32:44 8 issues for contaminated procedures or dirty
 17:32:46 9 procedures, they are very important to consider in
 17:32:49 10 clean and clean-contaminated surgery," period.
 17:32:52 11 Did I read that correctly?
 17:32:53 12 A. You did.
 17:32:53 13 Q. And that's something that you yourself as
 17:32:55 14 the -- the main editor, published in 2008; correct?
 17:33:00 15 A. We did.
 17:33:02 16 MR. ASSAAD: I have no more questions.
 17:33:04 17 MR. COREY GORDON: I'll just have a couple.
 17:33:04 18 EXAMINATION
 17:33:04 19 BY MR. COREY GORDON:
 17:33:06 20 Q. Keep Exhibit 13 open. That paragraph that
 17:33:09 21 counsel was just reading from in that sec -- Go back
 17:33:15 22 to page 134.
 17:33:17 23 A. Sure.
 17:33:19 24 Q. Under "**Known Facts.**"
 17:33:22 25 A. Yes.

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17:34:33 1 MR. COREY GORDON: I have nothing further.
 17:34:34 2 MR. ASSAAD: I have one more question.
 17:34:34 3 EXAMINATION
 17:34:34 4 BY MR. ASSAAD:
 17:34:39 5 Q. Go to page 134.
 17:34:40 6 A. Oh, okay.
 17:34:47 7 Q. When you read, "Most SSIs arise from the
 17:34:49 8 patient's endogenous flora which contaminate the wound
 17:34:52 9 by direct contact." "Direct contact" is -- is by --
 17:34:56 10 by hand or some inanimate device; correct?
 17:35:00 11 A. When I think of it I think that it's already
 17:35:03 12 there, as you know, we've talked about this before,
 17:35:05 13 and once the blade goes across that's direct contact
 17:35:09 14 with the wound. Now she may mean, in addition, you
 17:35:13 15 know, if there's a -- a scalpel that picks up part of
 17:35:17 16 the flora and then is used in the wound. I would have
 17:35:21 17 to go back and talk to her if -- what she meant more
 17:35:25 18 commonly, or both.
 17:35:26 19 Q. But you understand bacteria -- when they
 17:35:29 20 talk about direct contact with bacteria, it's
 17:35:31 21 transferring it from, like, your hand to a device or
 17:35:33 22 your hand to a wound; correct?
 17:35:35 23 A. That's correct.
 17:35:37 24 MR. COREY GORDON: Object to the form of the
 17:35:37 25 question.

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17:33:22 1 Q. Could you just read the first sentence,
 17:33:24 2 please?
 17:33:25 3 A. "Most SSIs arises from the patient's
 17:33:28 4 endogenous flora which contaminate the wound by direct
 17:33:31 5 contact."
 17:33:32 6 Q. Thank you.
 17:33:33 7 And if you could turn to page 138?
 17:33:39 8 A. Yeah.
 17:33:39 9 Q. And could you -- in the -- just read that
 17:33:42 10 first paragraph under "**Controversial Issues**" there.
 17:33:44 11 A. "ORs equipped with laminar airflow system
 17:33:48 12 provide almost sterile air, yet a very few studies
 17:33:52 13 show a significant decrease in SSI rates for surgical
 17:33:56 14 procedures performed in this type of OR."
 17:34:01 15 Q. And go ahead and read the rest of the
 17:34:03 16 paragraph.
 17:34:03 17 A. "Furthermore, some of these experiments did
 17:34:06 18 not control for the antimicrobial regimen received as
 17:34:10 19 surgical prophylaxis, thus precluding any conclusion
 17:34:13 20 on the exact role of the laminar flow system.
 17:34:16 21 Therefore, at this time no recommendation can be made
 17:34:19 22 for the use of laminar flow ventilation in" the "ORs."
 17:34:25 23 Q. This was published in 2008; is that right?
 17:34:31 24 A. I think that's right. Yes.
 17:34:33 25 Q. Thank you.

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17:35:37 1 MR. ASSAAD: That's all I have.
 17:35:38 2 THE WITNESS: Okay.
 17:35:38 3 MR. COREY GORDON: We're done. We'll read
 17:35:40 4 and sign.
 17:35:43 5 THE REPORTER: Off the record.
 17:35:44 6 (Deposition concluded at 5:35 p.m.)
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